# je Kining Vournal,

#### FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

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LONDON, SATURDAY, NOVEMBER 14, 1874.

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BRHOUSE,

N68, CITY Glaisdale Quarry.
Javali.
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and sold. Fortnightly accounts opened.
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10 Newport Aber., £4½.

10 Bagnall John, £7½.

10 Cardiff & Swan, £4½.

10 Challed House, £4½.

10 Chillington Iron, £8¼

10 Chillington Iron, £8¼

10 Chillington Crump, and Co., 75s.

10 Merry and Co., 75s.

20 Merry and Co., 75s.

30 Welsh Freehold, £3½.

40 Rossa Grande, 1s. 9d.

60 Rica, 7s. 6d.

10 Whitehaven Iron, 5½.

40 Tyllwyd, 21s.

11 Newcastle Chem. £5¼

5 Central Swedish, £5.

30 Welsh Freehold, £3½.

5 Welsh Ironworks, off.

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We advise immediate application and purchase of the BAMPFYLDE and LLAN-awar shares. A rise in price is inevitable.

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10 coo's Kitch., £9 13s9

10 coo's Kitch., £9 13s9

10 coo o's Kitch., £9 13s9

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18 price o's Kitch., £9 13s9

18 price o's Kitch., £9 13s9

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Buyers. Sellers,	Buyers, Sellers
Bampfylde £ 114 £ 2	Port Nigel £ 1 £ 2
Birdseye Creek 21/8 23/8	Prince of Wales 9s 11s.
Carn Brea 55 56	Providence 5 51/2
Cedar Creek 11/8 11/4	Richmond 7 71/2
Central Van 34 11/2	Roman Gravels 13 131
Chapel House Colliery 434 434	Resewall Hill 5s. 6d 6s. 6d.
Chontales 11s 13s.	South Aurora 10s 12s.
Clee Hill Colliery 7s. 9d, 8s. 9d.	South Carn Brea 1½ 1½ 1½ 4½ 4½
Cook's Kitchen 9 91/2	South Condurrow 4 41/4
Devon Great Consols 134 2	Sweetland Creek 234 27/
Dolcoath 46 48	Tankerville 634 7
Eberhardt 41/4 43/4	Tecoma 9s 11s.
East Lovell 10 1014	Tincroft 30 31
Flagstaff 13/4	Van Consols 21/2 21/2
Gold Run 9s 11s.	West Chiverton 2 21/2
Ladywell 234 3	West Tankerville 10s 15s.
Last Chance 1 11/2	Wheal Grenville 4 4½ Wh. Kitty (St. Agnes). 4½ 5½
Marke Valley 20s 22s.	Wh. Kitty (St. Agnes). 41/ 51/4
New Consols 11/2 2	Wheal Peevor 6 7
Pennerley 1½ 15/8	
Penhalls	Wheal Uny 3 3

20 Russia Copper, £3,
10 Roman Gravels, £1: ¥4
80 Rossa Grande, 1s.
40 Sierra Buttes, £2;
50 South Aurora, 9s. 6d,
25 So. Roman Gra., 13s,
25 Tankerville, £7.
8 Thornhill Reef, 15s.
5 Thorp's Gawber, £13;
45 Tecoma, 9s. 6d.
30 Van Consols, £22,
50 West Chiverton, £2.
70 West Maria, 6s. 9d.
10 West Basset, £84,
10 Wheal Kitty, £5.
25 W. Tankerville, 11s 6d
5 Wh. Greenville, £5.

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8ELL the FOLLOWING SHARES, free of commission:
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30 Newfoundland. 50 |
30 Newfoundland. 50 |
40 New Consols, 40s. 70 |
50 New Rosario. 40 |
50 New Rosario. 40 |
50 New Rosario. 50 |
50 Parys Mountain, 6s 6d 5 |
50 Penstruthal, 12s, 6d. 30 |
50 Penstruthal, 12s, 6d. 30 |
50 Roman Gravels, £13¼ |
50 Rossa Grande, 1s. 10 |
50 Rossa Grande, 1s. 20 |
50 Richmond, £7 3s. 9d. 25 |
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40 Bampfylde.

50 Beglasita, offer wind.

50 Bilgasita, offer wind.

50 Bigg, 3s.

4 Carn Brea, £65½.

50 Cardiff and Swansea, £4½.

60 Cheago.

70 Chontales, 11s. 3d.

70 Chontales, 11s. 3d.

70 Cedar Creek, 24s.

60 Clee Hill Col., 8s. 3d.

60 Devon Great Consols.

65 Don Pedro, 11s.

65 Don Pedro, 11s.

65 East Lovell, £10½.

65 Eberhardt, £6.

65 Don Pedro, 11s.

66 Denerley, 33s.

67 West Mariston.

68 Demma, 12s. 6d.

69 Na, Romanda.

60 Narke Valley, 22s. 6d.

60 Narke Valley, 22s.

60 Verdywood Coal.

60 Narke Valley, 22s.

60 Verdywood Coal.

60 Wedgwood Coal.

60 Wedgwood Coal.

60 Wedgwood Coal.

60 Penstrathal, 12s. 6d.

60 West Sorgin, £72.

60 West Gorland.

60 Penstrathal, 12s. 6d.

60 West Gorland.

60 Penstrathal, 12s. 6d.

60 West Gorland.

60 Penstrathal, 12s. 6d.

60 West Gorland. 20 South Condurrow.
26 S. Prince Patrick, 42s 6
60 So. Rom. Grav., 14s.,
30 Sweetland, £2 18s.,
45 Thornhill Reef, 9s. 6d.
45 Thornhill Reef, 9s. 6d.
26 Tankerville, £7.
4 Tincroft, £31.
50 United Bituminous, 9s.
70 Van Consols.

50 United Bituminous, 9s 70 Van Consols. 40 Wedgwood Coal. 30 W. Tankerville, 12s. 6d 50 West Tolgus, £72. 5 West Basset, £85g. 50 W. Esgair Lie, £2s. 6d 30 West Gorland. 25 Wheal Grenville. 10 Wheal Kitty. 10 West Chiverton. 20 Wheal Peevor. 25 Whist Peevor.

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#### GEOLOGICAL SURVEY OF VICTORIA.

GEOLOGICAL SURVEY OF VICTORIA.

Recognising the accuracy of Sir Henry De la Beche's view that palæontological researches form so essential a part of geological investigations, such as those conducted by the Government Geological Survey, that plates and descriptions of fossils should form part of the Geological Memoirs, because they constitute a needful portion of the publications of the Geological Survey, the executive of the Geological Survey of Victoria have wisely commenced the issue of a prodomus of the palæontology of the colony\* in decades or numbers of ten plates each, with corresponding letter-press on the plan of the Decades of the Geological Surveys of England, Canada, India, and several other Governments. As practical utility is the chief object in view, the decades are to contain figures and descriptions, in the first place, of the more characteristic fossils of each formation, of which good specimens may be in the National Collection; so the formation of the geological ages of the strata they may meet.

The first decade contains two plates of species of graptolites, from which Prof. McCoy was enabled to determine the Lower Silurian geological age of the slates containing the Victorian gold reefs. Then follow three plates illustrative of the extinct fossil wombats from the gold cement of Dunolly, &c., which first enabled him to show that their gold drifts, like those of Russia, were of the age of the mammaliferous crag of the English plicene tertiary period. Then follow two plates of the singular volutes, representing the volutilities of the Barton clay formation of Hampshire, which, amongst others, enabled him to fix the place of the tertiary formations, extending from the shores of Hobson's Bay to the Murray in that debatable étage, newer than the eccene tertiary, and older, by Lyell's percentage test, than the miocene, for which modering geologists have proposed the new intermediate geological period, the oligoeene. Then comes a plate of the eyedadous plants, not found in the palæozoic coal field

#### THE RESOURCES OF CALIFORNIA.

Although for the moment American mining enterprise generally is unfavourably looked upon by British capitalists, owing to the extremely unsatisfactory results which have attended recent investments in Utah and the neighbouring States, enough has been done to prove that the resources, mineral and other, of the Western States to prove that the resources, interesting of sound business forethought they are fully capable of profitable development. California, as the first settled of the great metalliferous mining States, will ever possess a certain amount of attraction to miners, and if for no other reason than this the new edition of Mr. Hittell's work' will be sure to secure a large number of readers. Knowing how much more easy it is to attract attention to business matters by offering the facts concerning them in an interesting form, Mr. Hittell his been careful to make his volume thoroughly readable, his chapters on the elimate and scenery being no less acceptable, even to the miner, than those on mining, geology, botany, and zoology. Referring to the rivers of the Sierra Nevada, he remarks that the low land of the Sacramento basin is drained by the Sacramento running from the north, and the San Joaquin from the south. They meet and unite in the centre of the basin at 38°, and break through the coast range to the Pacific, forming the bays of Suisun, San Pablo, and San Francisco on their way. Part of the Sacramento Valley shows terraces, the farthest from the river being a coarse gravel. The richest soil is on the immediate bank. The great body of the valley is bare of trees; its even surface is broken only in one place by the "Buttes," a range of volcanic hills six miles wide by 12 long, with three peaks about 2000 ft. high, which rise in lonely abruptness from the middle of the plain in 39° 20°. Mr. Hittell speaks very favourably of the Chinese, remarking that it is said the Chinamen should not be tolerated because they are an inferior caste; they do not learn our language or customs, they send away the money of the country, they make no improvements, they pay few taxes, and they are immoral pagans and enslaved. Yet the only slavery among them in California san honest compliance with their contracts entered into freely. They pay their debts incurred for their passage money, and that is a kind of slavery that might have been commit are enormous, and that by the exercise of sound business forethought they are fully capable of profitable development. California, as the first settled of the great metalliferous mining States, will ever possess

In England, it may be well to repeat what he says upon the stolect. Nost of the gold of the placer mines of California is obtained by hydraulic washing—that is, throwing water under a strong pressure against the banks of auriferous gravel, which is then carried by the water into a sluie. The hydraulic process is applied only in claims where the dirt is deep, and where the water is abundant. If the dirt were shallow in the claim and its vicinity, the necessary head of water could not be obtained. Hydraulic claims are usually in hills. The water is led along on the hill at a height varying from 50 to 600 ft. above the bed-rock to the claim at the end or side of the hill, where the water playing against the dirt soon cuts a large hole with perpendicular, or at least steep, banks. From the top of the bank a hose or iron pipe extends down to the bottom of the claim. The hose is of heavy duck, sometimes double sewn by machine. When full it is from 4 to 10 in. in diameter, and will bear a perpendicular column of water 50 ft. high, but a greater height will burt it. Now, as the force of the stream increases with the height of the water, it is a matter of great importance to have the hose as strong as possible; and for this purpose in some claims it is surrounded by iron bands, which are about 2 in. wide, and are connected by four ropes, which run perpendicularly down. The rings are about 3 in. apart. The "crinoline hose" thus made is very flexible, and will support a column of water 150 or 200 ft. high. The pipe at the end of the hose is like the pipe of a fire-engine hose, though usually larger; sometimes the pipe will be 3 in. in diameter where it connects with the hose, and not more than 2 in. at the mouth; and the force with which the stream rushes from it is so great that it will kill a man instantaneously, and tear down a hill more rapidly than could a hundred men with shovels. One or two men are required to hold the pipe when it is to be held, but usually it is supported on a framework. These remarks, however, a

"Prodomus of the Paleontelogy of Victoria; or, Figures and Descriptions of torian Organic Remains." Decade L. By Frederick McCoy, F.G.S., &c., cernment Paleontelogist and Director of the National Museum of Melbourne. Bourne: By authority: John Ferres, Government Printer. Climate, Salubrity, "The Resources of California; comprising the Society, Climate, Salubrity, nery, Commerce, and Industry of the State." By JOINT S. HITTELL. San incisco: A. Roman and Co. London: Trübner and Co., Ludgate Hill.

the speed in consequence of the pressure being ten times as great as at the top of the hill. Such a stream, under a head of 300 or even 500 ft., has terrific force, and will make boulders 1 ft. through jump 20 ft. into the air when it strikes them. The manner in which the miners bring the water to bear upon the

The manner in which the miners bring the water to bear upon the bank, the quantity of dirt that can be washed, and the quantity of water used, are then referred to, but from the above enough can be learned of the general attractiveness of the book. As the present high price of quicksilver appears to afford an excellent opportunity for capitalists to undertake the development of quicksilver mines, it may be mentioned that Mr. Hittell tells us that quicksilver is now of the leading metals of California in industrial value, its total yield surpassing that of silver obtained from the argentiferous lead added to that separated from gold. Mercury occurs in its metallic form in some porous rocks near St. Helena, from which it can be shaken out, but the market is supplied by mines of sulphuret or cinnabar, the richest deposits of which are at New Almaden, New Idria, Knoxville, Pope Valley, Vallejo, and various places in Sonoma county. Cinnabar is found at many points in the cretaceous rocks on the coast range from Santa Barbara to Shasta. The geology, paleontology, botany, zoology, &c., are all fully treated of; and the almost innumerable facts stated are given in so concise and readily accessible form, that whether one requires to ascertain to what extent any parform, that whether one requires to ascertain to what extent any particular resource is developed in the State, or what resources are likely to be capable of more profitable development, the volume will render him material aid in arriving at reliable conclusions.

#### PROTECTION OF INVENTION.

PROTECTION OF INVENTION.

Whether it be determined ultimately to follow the example of Holland, Switzerland, and Turkey, and abolish patents altogeter, or to imitate America, and give to inventors what many consider more than their just right, there can be no doubt that at present inventions are acknowledged to be worthy of recognition as tangible property, and the knowledge of the means by which that class of property is secured to the inventor is, therefore, essential to everyone. Under the title of "Handbook of Patent Law, British and Foreign, with a chapter on Trade Marks," a very useful little manual has been compiled and published by Mr. W. Phillips Thompson, of Liverpool. The hint given under the head of general rules relating to British patents are extremely useful, since they show not only who will be entitled to the right in case of concurrent invention, but also explain what kinds of inventions are patentable, and what are the respective rights of employers and employees in case of inventions by the latter. Mr. Thompson's remarks on the subject of searching are especially appropriate. He suggests that before applying for protection an exhaustive search should be made through previous patents, to see if the invention be really new. Any invention can be patented, and yet the patent be invalid, owing to the invention having been previously known or patented. Three quarters of the patents taken out at the present time are entirely worthless from this cause. The fact is well known to all patent agents, but without special arrangements the difficulty of making a thorough search through the 69,000 patents already enrolled is almost insurmountable. The cost of a search varies according to the nature of the subject. A range of from one to four guineas should over any ordinary case. Should the patent be proceeded with the few patent agents who systematically search usually make no separate charge for the daty, but include it in the charge for provisional protection. His hints upon the other steps to be taken a

PRACTICAL SUGGESTIONS TO INVENTORS,—There can be no question that in the protection of invention by patent, the experience of the patent agent, to whom the compliance with the legal formalities is entrusted, is of the first importance to inventors; for it will be readily understood that no amount of searching through the mere specifications filed can be regarded as equivalent to even a brief search through the private records of an agent of acknowledged integrity and experience. The old-established firms have not only assisted in securing the patents, but have likewise, owing to the ordinary business having compelled them for the protection of their clients to study the minutest details of the inventions both of their clients and of those opposed to them, acquired such a knowledge of the weak and strong points of previous patents that their assistance is invaluable to the inventor of to-day. Messrs. Roberrsow, Brooman, and Co., whose names have become identified with the interests of patentees, not only from their reperience as agents having exceeded half a century, but also from their long connection with the Mechanic's Magazine, have just issued a new edition of their "Practical Suggestions and Advise to Inventors," which, although brief, contains really all that the inventor desires to know. They recommend the employment of an agent of known respectability and practical experience, and caution their readers not to be fascinated by low charges, which they very accurately define to mean "inability and carelessness." The duration and cost of patents in the various countries in which they are granted are conclosely given, and they turnish a considerable amount of very useful information. The pamphlet is one which all intending patentees should carefully peruse.

DRAUGHTSMAN'S HANDBOOKS,-From the rapid way in which business is now conducted it is by no means an uncommon occurrence for the pupil to fail to obtain all the information necessary to enable him to manipulate his tools and materials to the best advantage, but any shortcoming in this respect may readily be remedied by the study of Mr. Andrés Draughtsman's Handbook, which gives such practical hints as the pupil would receive from the most careful in structor. To render the book allike useful to the draughtsman and to his pupil if has been divided into two parts, the first explaining and illustrating the principles and practices of the art, the second the application of the principles prevously learned, and giving such information as relates directly to the duties of the practitioner. Each of the 12 chapters contains as complete an outline of the subject treated of as need be desired. The chapter on the drawing office and its furnishings is followed by one on geometrical problems: then lines, dots, and their combinations, as used to represent the various kinds of surface to be indicated upon plans the use of colours being treated of in the succeeding chapter with equal clearness, the first part closing with a chapter on shading. The second part, describing applications, treats of lettering, bordering, and north points, scales, plotting, civil engineers and surveyors' plans, map drawing, mechanical and architectural drawing, and copying and reducing. There is a page of trigonometrical formulae, some useful tables, and an excellent index. The plates explaining how various physical features natural object, and materials to be noticed should be drawn are beatfully executed in ordinary and chromo-lithography as required, and the entire volume could scarcely be made more practically useful or more complete.

"The Draughtsman's Handbook of Plan and Map Drawing, including lattractions for the Preparation of Engineering. Architectural, and Mechanical Draw-

\* "The Draughtsman's Handbook of Plan and Map Drawing, including Instructions for the Preparation of Engineering, Architectural, and Mechanical Drawings." With Numerous Illustrations and Coloured Examples. By George G-Andre, C.E., M.S.E. London: E. and F. N. Spon, Charing Cross.

THE LAW.-The commencement of the legal year has been judiclously chosen by Mr. F. G. M. Wetherfield, of Lincoln's lim, barrister-at-law, for the issue of "The Law; a Monthly Magazine of Legal Matters, for the Profession and the Public," Messrs. Lockwood and Co., of Stationers' Hall Court, having undertaken the publication. There are original articles on the Effect of the Judicature Act, the Future of the County Courts, the Registration of Bills of Sale, the Mayor's Court, London, and the Law as a Monopoly; in addition to which there

are Legal Notes and Reviews. The supplement of Useful Statutes contains a Acts of the present year—the Married Women's Property Act Amendment Infants' Relief, and the Attorneys' and Solicitors' Acts. Judging from the number, the magazine will prove as useful as it is interesting, and as there is mised for the December number original articles on the Junior Bar—its Pos and Prospects, Law Reform in the Time of Cromwell, the Bankruptey Law, The fer of Real Property, and the Adulteration Acts, together with Legal Notes views, and a Supplement of Useful Statutes, it seems probable that the "Law" be acceptable to a very large class of readers, and prove a great success.

#### Lectures at the Boyal School of Mines.

#### FIRST PRINCIPLES OF CHEMISTRY.

FIRST PRINCIPLES OF CHEMISTRY.

The First Course of Evening Lectures, delivered to working men, in connection with the above Institution, was commenced by Dr. Frankland, F.R.S., on Nov. 2. The subject was "The First Principles of Chemistry;" the lectures being delivered in the Lecture Theatre of the Royal College of Chemistry, in the new buildings adjoining the South Kensington Museum. As usual, the attendance was very good—in fact, as many attended as could be accommodated. In his first lecture Dr. Frankland illustrated the difference between the chemical force and the other principal forces which act on matter, He said the principal forces acting on matter are gravitation, cohssion, and the force of chemical affinity. Gravitation affects matter as a whole—as, for example, a piece of ice, if unsupported, will fall to the earth by the action of this force. The force of cohesion act as a bond between the individual particles of matter, holding them together more or less, but it can be overcome both by mechanical force, and more especially and more readily by the force of heat. together more or less, but it can be overcome both by mechanical force, and more especially and more readily by the force of heat. We can overcome cohesion by mechanical force in this way; we will bring down on to the surface of this vessel of water the lower surface of this glass disc, which forms one pan of this balance; we find it is held to the water by a force which we can measure by placing weights in the other scale pan. I place in a weight of about 2 ozz, and it is not sufficient to draw the plate away, so that you see there is a considerable force acting between the glass and the water. I will put on 20 grammes more, and it just suffices to tear away the glass. But this might be done in two ways—either the plate has been torn from the water, in which case the surface of the plate should be dry, or the layer of water adhering to the plate has been torn away from the layer beneath, in which case the plate would be wet. On examination we find that the latter is the case, and therefore we have indeed succeeded in overcoming the cohesion existing between the particles of water.

fore we have indeed succeeded in overcoming the cohesion existing between the particles of water.

We can also overcome this cohesive force by means of heat. You know that if heat be applied to a mass of ice, where the cohesion is so great as absolutely to lock the particles together, we convert it into liquid water, where the particles have a greater freedom of morement—in fact, the cohesion between them has been weakened. If we employ a still greater degree of heat than what is necessary to convert the ice into water, we can still further subdue this force of cohesion. If we expose water to a certain degree of heat the water boils—that is, it becomes converted into a colourless and invisible vapour called steam. What is usually called steam, however, is not really steam at all; it is a cloud of little spherules of water, condensed from the steam, which float for a time in the air; and inconverting the water into steam we have overcome the last traces of cohesion, and the particles of the water now no longer hold together at all. I want you now to observe that in all these changes of water the last and in the last and in the last and the last all. at all. I want you now to observe that in all these changes of water the character of the water is not essentially altered. In the last experiment we converted water into steam, but we find that when the steam is allowed to cool it reproduces water with all its properties unimpaired; and as steam it still possesses the two most remarkable properties of water—its negative properties of not burning, uninflammability, and not supporting combustion. I hold a lighted taper in the steam, and you see the steam does not take fire, nor will it allow the taper to burn in it, but extinguishes it, and these two properties belong also to water. belong also to water.

When steam returns to the state of water there is a remarkable

alteration in volume—an enormous condensation. I can show this experimentally, by closing this tin vessel, which is now filled with steam from a little water boiling in it, and now I will condense the experimentally, by closing this tin vessel, which is now filed win steam from a little water boiling in it, and now I will condense the steam by pouring cold water over the tin, and you see the pressure in the vessel is so reduced that the atmosphere forces in the sides of the vessel. By the action of heat, then, we have advanced step by step in the conquest of cohesion. The experimenter would now wish to push this further, and see what effect would be produced by using a much higher temperature. We will try the experiment by applying a temperature compared with which that of an iron furnace is coldness itself. I mean the temperature of the electric spark. We get by this means a mixed gas, which is evidently not steam, because we are collecting it over cold water, and it does not collapse. On proceeding to examine its behaviour with regard to a lighted taper (which you will remember refused to burn in the steam, or to ignite the steam) we find it burns with explosive violence, so that we have effected a still further change in the water, and on cooling this product we do not get back the steam we had before; we have, in acthere been dealing with the chemical force. The essential character istic of the chemical force is this—that it changes the character dodies on which it acts, whereas the force of gravitation or cohesion does not affect their character.

does not affect their character.

Let us pursue this subject further, and to do so let us employ elso Let us pursue this subject further, and to do so let us employ electricity in another form—i.e., not as a spark, but as a voltaic current and such a current we will send through the water in this ressel. Immediately a number of bubbles of gas are seen to form on the two platinum plates with which the ends of the wires from the battery are connected. We will collect the gas proceeding from each plate separately in these two cylinders, and examine them, but as the collect you cannot but notice the difference between the amount of gas in each cylinder, and on looking closely at the plates you will see that the gas is given off from one much faster than from the other. The relation between the two quantities, as you may see after we have allowed the action to go on for a definite time, is as two home. As far, then, as volume is concerned, the two plates perform different functions in decomposing water. Do the products differing properties too? To the gas collected in least volume in the office the way of the plate yellow at once into flame, but the gas itself does not burn; this gas, the is a supporter of combustion. The gas which came off in great quantity burns quietly, with a blueish lambent flame, when a light is applied to it; it is an inflammable gas. Thus we have succeeds in decomposing water into two separate parts, both very different in properties from water—for example, both are gases at ording temperatures, whereas water is a liquid below its boiling point. It have, indeed, taken the water to pieces, and obtained from its composition two different kinds of matter, which possess very different properties. The methods we have employed up to this plate. composition two different kinds of matter, which possess very freent properties. The methods we have employed up to this pain have been pure force, without the intervention of other kinds of matter; but now I will take the water to pieces by other methods, which depend essentially upon chemical action, and not upon has or electricity. In these methods, however, we must content on selves with the separation of only one element at a time; we cannot get out both the constituents of water at once, as in the preceding methods. And, first, we will try to get out the inflammable on stituent, which I may as well tell you now the chemist calls bythy gen. We employ for the purpose a metal called sodium, which the constituents of water at once, as in the preceding when thrown into water, drives out the hydrogen; and, as below the find this gas burns quiety, and not explosively. We might have simpleyed instead of sections are converted similar metal called points. we find this gas burns quiety, and not explosively. We might all employed instead of sodium a somewhat similar metal called possium, but the latter not only drives out the gas, but developes a much heat as to set the gas on fire. Now, let us try to replace in the chemical constituent of water—the supporter of combustion—which all the chemical calls are easy as in the chemical calls. the chemist calls oxygen. The process is not quite so easy as in the case of the hydrogen, and the apparatus is somewhat complicated. We proceed in this manner—we act on steam in a red-hot porcein tube (embedded in a charcoal furnace) by means of chlorine, again of which I shall have more to continue apparatus tecture, and so

it we find that it re-ignites a glowing splinter of wood, and that recognise it as oxygen. recognise it as oxygen.

We have thus analysed our water: we have proved that it is all the same than the same transfer of the same tra

of which I shall have more to say in a subsequent lecture, a are collecting some gas in this cylinder over cold water. On the collection of the collection o

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a simple substance, but that it can be converted into two other kinds of matter—an inflammable gas, and a gas which supports combustion without itself inflaming. We ought to proceed to verify our result by putting together these two pieces again, and seeing if they will reform water. The chemist knows that this oxygen is present everywhere in the air, and if we bring hydrogen into contact with it we have the two constituents of water present, but they have no tendency to combine together without the aid of a strong heat (not so strong, of course, as that we employed for their separation). Here in this case we have a jet of hydrogen burning in the air, and if we hold over it a cold glass jar the jar rapidly becomes bedewed with moisture, and we could let this go on for a time till little streams of a clear liquid (which we could easily prove to be water) began to trickle down the glass. In this glass we have some of the liquid collected from a similar experiment which has been in progress for some time, and on dropping into the liquid a small piece of the metal potassium it bursts into flame, proving to us that the liquid is water. But in these two experiments you might object that there a simple substance, but that it can be converted into two other kinds metal potassium it bursts into flame, proving to us that the liquid metal potassium it bursts into flame, proving to us that the liquid swater. But in these two experiments you might object that there were other substances present besides oxygen and hydrogen, and therefore it was not absolute proof that it was only those two which were really employed. But in this closed glass vessel we have nothing else present except those two gases, and on passing an electric spark through the mixture you perceive a bright flash of light fill the jar, and the glass previously clear is covered with moisture; by repeating the experiment several times we could collect sufficient to prove the resulting compound to be water.

We have found that two volumes of hydrogen and one volume of oxygen are produced when we decompose water by a current of electricity, and these are just the proportions in which you require to mix the two gases in order to reproduce water. It is found that if you have an excess of either gas, that excess remains behind after the proper proportions have combined, and thus for the production of water exactly two volumes of hydrogen and one volume of water are required. But there is another question we might ask—What is the relation between the volume of steam (that is, water in a gaseous condition) formed and the volume of mixed gas which is used in its

are required.

The relation between the volume of steam (that is, water in a gaseous condition) formed and the volume of mixed gas which is used in its formation? We cannot measure this by the decomposition of the given quantity of steam, because it is not possible to decompose the whole of the steam; we can, however, perform the reverse experiment, and convert a definite volume of the mixed gas into measure, and observe the relative volumes. For that purpose we employ a U-shaped table; the top of one of the limbs is sealed up, and by means of mercury a definite quantity of the mixed gas is enclosed. An electric spark is sent through the mixture to effect the combination, and to prevent the condensation of the steam this arm of the tube is surrounded by the vapour of amylic alcohol, a liquid boiling above 100°C. After adjusting the level of the mercury in the tube, it is readily seen by help of these india-rubber rings that the gases in combination have contracted in volume, and that the volume of steam occupies only two-thirds of that of the gases before combination. We are justified, then, in concluding that when two volumes gram occurred to the state of the state of the state of bydrogen and one volume of oxygen combine to form water, two volumes of water (as steam) are formed, or the water formed is exactly equal to that of the hydrogen employed, the oxygen becoming, as it were, absorbed by the hydrogen.

#### SOUTH STAFFORDSHIRE AND EAST WORCESTERSHIRE INSTITUTE OF MINING ENGINEERS.

THE INDIAN COAL FIELD.

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At the last monthly meeting of the above Institute the following interesting letter on our Indian Coal Field was read by Mr. Henry Johnson, jun. (the secretary). The author is Mr. Walter Ness, late a Member of the Institute, and now in India as a Government

interesting letter on our Indian Coal Field was read by Mr. HENRY JORNSON, jun. (the secretary). The author is Mr. WALTER NESS, tate a Member of the Institute, and now in India as a Government Mining Engineer: —

\*\*Birora, S.pl. 22.—If I have not met the desires of the Institute by sending parelies of the want of keeping you well in the development of this coal field, it is at fer want of keeping you well in I gather on the spot to the Government—there is send in the part of the great of the sending the sending of the part of the sending to the sending the sending

Ash	57·0 14·5	*******	10.9	*******	14.0
In addition to the above, I made another in the quantity of water, &c., in the coal is Fahr., with the following results:—  Coite, 56-7  Ash  Moisture	analy in a si	sis, fres sturates	h fron	n the p	pit, to asee
At 120° Fahr. 2-5 (Sulphur in coal	eigh .	*********	********	0.	100·00 25 3

water is in excess of the majority of coals in use in Britain; but it may also knowed that the proportion of ash solicided that fixed carbon is in excess, which is a redeeming feature, although the textent necessary to bring it up to the standard of English coal in effective of independent of the property of the carriage, even after it reaches Bombay, and on twing this coal, nor do I think I am at all pitching a high standard for it in being this much.

ing, then, that there is a good proportion of the most essential constituent of is bis, I am hopeful that it will be, by a little re-arrangement and adjusted the fre-bars, and, it may be, of the fre-box, found suitable for other pur-

poses besides generating steam in a locomotive, although this is the first important purpose to which it is to be applied, and to facilitate which a branch line of railway is now being extended to the works to carry off the produce thereof. I hope to be able to send you another letter by-and bye, when we get nearer the working state, which need not be many months now. I see from the Culiery Guardian that you are going to have a public test of hand coal-cutting machines, and the Council of the Institute to be the judges. May I, as an old member, put in a word? I am as much interested in this as I could have been in any other position. You will have had the test over ere this leaves India, and may have settled which is the best, and, if you have taken everything into account, you will have found that the best is not equal to one ordinary pikeman. We cannot create power. The machine must have a greater modulus than the pick in the hand of the man acting direct with the tool, so to speak, and as for the position the man has to assume in plying the pick I am persuaded this will be easier for him than to have to turn both himself and also a necessarily cumbrous machine. Compressed air or, if possible, something better, which I doubt if it can be had, must be used to do the physical part of the work, and use the man to guide the tool—many improvements in which may be made, and I am doubtful if such a machine as the one at the Pelsall Cool and Iron Company's Works can be surpassed. I hope it may. Supposing I had just made these remarks at a monthly meeting called for the purpose of discussing the merits of coal-cutting machines, what might be the reply?

WALTER NESS.

#### Registration of New Companies.

The following joint-stock companies have been duly registered:-

The following joint-stock companies have been duly registered:—
NEW PROPLE'S COAL COMPANY (Limited),—Capital 20,000., in 1l. shares. To carry on business as coal owners and coal merchants. The subscribers (who take one share each) are—J. J. Frew, M.A., 18, Hanover-square; W. S. Terris, Cornwall-road, Bayswater; J. Bond, Providence Wharf, Lambeth; G. S. Jealous, Holly Mount, Hampstead; G. Lebbis, Hand-court, Holborn; T. Roberts, Cumberland-terrace, Lloyd-square; J. Hasker, 38, Tavistock terrace.
APPLEBY IRON COMAANY (Limited),—Capital 100,000l., in 10l. shares. To carry on business as miners, maltsters, &c., in the county of Lincoln. The subscribers are—Allan Gilmour, Kilmarnock, 900; J. Gilmour, Kilmarnock, 930; J. Gilmour, Kilmarnock, 930; J. Gilmour, Elmbank, Kilmarnock, 450; J. Gilmour, Crookedholme, Ayr, 300.

Ayr, 300.

BURLEIGH ROCK BORING COMPANY (Limited).—Capital 20 000. BURLEIGH KOCK BORING COMPANY (Limited).——Aprical 20.000., in 10.6. shares. To carry out an agreement relating to a certain invention for improvements in machinery for drilling rock, &c. The subscribers are—A. Hamilton, 100, King-street, Manchester, 10; T. L. Jenkins, York-street, Manchester, 10; J. Littlewood, York-street, Manchester, 10; R. Cameron, Bond-street, Manchester, 10; R. Mottram, King-street, Manchester, 1; C. Galloway, Knott Mill Ironworks, Manchester, 10.

anchester, 10.
TY PICCA COLLIERY COMPANY (Limited).—Capital 15,000l., in

Manchester, 10.

TY PICCA COLLIERY COMPANY (Limited),—Capital 15,000/., in 10/. shares.—To acquire the Rhondda seam in the parish of Lanuanno, Glamorganshire. The subscribers (who take one share each) are—G. W. Wood, Sambrookcourt; W. Frost, Bedford-street, Bedford square; W. P. Hollis, Leytonstone, Essex; W. E. Glover, Bath-street, E.C.; F. W. Barton, Providence street, City-road; H. Briscoe, Poutypridd; and W. J. Ward, Camden-road, M. W.

AUSTRALIA DIRECT STEAM NAVIGATION COMPANY (Limited).—Capital 500,000/., in 20. shares. The subscribers to this company (who take one share each) are—F. A. Buchannan Crauford, United Service Club; W. G. Trend, Byimbdon House, Peterton-road, Highbury New Park; D. Miller, Hereford road, Bayswater; J. Robertson, Ormonde House, Highbury; W. B. Dick, Norreston House, near Glasgow; T. Backhouse, 5, Austinfriars; J. P. Cheyne, Woodstock road.

FALSTAFF HOTEL COMPANY (Limited).—Capital 20,000/., in 5/. shares. To acquire the Falstaff Hotel, Manchester. The subscribers are—H. Greenwood, Deansgate, Bolton, 1; W. Hall, Farnworth, 1; J. Comann, Deansgate, Manchester, 400; J. Pharoah, Stockport, 10; W. Crankishall, Bolton, 1.

BLACKROD SPINNING AND WEAVING COMPANY (Limited).—Capital 50,000/., in 5/. shares. To acquire a cotton mill at Black pool. The subscribers are—J. Smethurst, 51, Leyland-road, 200; J. Greme, Fern House, Clitheroe, 100; H. Williams, Pemberton, 1: W. Waddington, Ince, Lancashire, 100; R. Dewhurst, Clitheroe, 100; and H. Smith, Blackrod, 100.

SOUTHPORT PARCELS AND LUGGAGE COMPANY (Limited).—Capital 25,000/., in 5/. shares. To convey or store luggage, &c. The subscribers are—C. J. Fox, Southport, 60; J. Blyd, Southport, 10; W. Darbyshire, Southport, 2: and J. T. Roberts, Southport, 2.

EDGESIDE HOLM COTTON SPINNING AND MANUFACTURING COMPANY (Limited).—Capital 60,000/., in 5/. shares. To corvey or store luggage, &c. as are—each) are—each) are—each) are—each) are—each are—each) are—each are—each) are—each are—each) are—each are—each) are—each are—each) are—each are—each) a

EDGESIDE HOLM COTTON SPINNING AND MANUFACTURING COMPANY (Limited).—Capital 60,000l., in 5l. shares. To carry on business as cotton
spinners, &c., at Newchurch. The subscribers (who take one share each) are—J.
Munn, jun., Newchurch: H. W. Clegg, Haslingden; S. Scholefield, Newchurch;
J. C. Canliffe, Newchurch; H. Pickup, Newchurch; R. Ashworth Coute, Waterfoot; and R. Hardman, Facit, near Bacup.
WILLIAM AND GEORGE OPENSHAW (Limited).—Capital 40,000l.,
in 100l. shares. To purchase cotton mills, &c., at Pinhole, Lancashire. The subscribers are—W. Openshaw, Bury, 50; George Openshaw, Bury, 50; W. Rumney,
44, George-street, Manchester, 50; E. Micklow, Castlehead, 50; T. C. Davies, Bury,
50; James Sorbie, Manchester, 50; and T. O. Openshaw, Bury, 25
GABOWEN COLLIERY COMPANY (Limited).—Capital 16,000l., in
100l. shares. To carry on coal mining operations at Whittington, Salop. The sub-

GABOWEN COLLIERY COMPANY (Limited).—Capital 16,000l., in 100l. shares. To carry on coal mining operations at Whittington, Salop. The subscribers (who take five shares each) are—W. W. Boulton, Andman, near Stourbridge: W. Corbett, Cumberland Hall, near Stourbridge: G. A. Trotter, Kimer; E. S. Haines, Stourbridge; J. Humfrey, Halesowen; R. Groucott, Kingswinford; and J. L. Holland, Stourbridge.

BRITISH, COLONIAL, AND FOREIGN PROPERTY INSURANCE CORPORATION (Limited).—Cadital 1,000,000l., in Sl. shares, of which 20,000 will be first issued. Tocarry on a general insurance business. The subscribers (who take one share each) are—J. R. Banner, 3, Mineing-lane; T. Clark, 17, Queen-Victoriastreet; F. G. Dewing, Metropolitan Buildings, Queen Victoria-street; W. Perks. 35, Seething-lane; E. Rooks, 85, Graecolurel-street; Luke Bishop, 10, Queen street-place; and J. Bridges, Lavender Hill, Clapham.

CRICKHEATH LEAD AND COPPER MINING COMPANY (Limited).—Capital 14,000l. in 2l. shares. Mining in the parish of Oswestry is the object here. The subscribers (who take one share each) are—T. Rowe, Red Lion court; W. Willis, 134, Camden-road; W. White, 25, Finsbury-place; G. P. King, 6, Wat ling-street; J. E. Beales, York-street, Portmor-square; W. P. Tarner, Little Britain; T. H. Ames, Asylum-road, Peckham.

ITALIAN SULPHUR COMPANY (Limited).—Capital 5000l., in 1l. shares. To advance money to the Cesens Sulphur Company (Limited).—The subscribers and J. Structeth 29, Deliver Gate, But Public Web. 1000. Addition. Describers are and Structeth 29. Deliver Gate, But Public Public 1000.

hares. To advance money to the Cesena Sulphur Company (Limited). The sub-cribers are—J. Stamforth, 29, Prince's Gate, Hyde Park, 1000; Adolphe Dreyfur, Paris, 1700; Wolfgang M. Scheyer, Paris, 2000; C. Cervesse, Paris, 40; Pierre de 'Harcotte, 29; H. Labouchere, Pope Villas, Twickenham, 50; J. Earnson, 93, Vood-street, 14.

Wood-street, 14.

ST. DAVID'S LEAD MINING COMPANY (Limited). —Capital 10,000l., in 1l. shares. For Mining in Wales. The subscribers (who take 50 shares each) are—H. Sunderland, Waterloo-street, Birmingham; W. Richardson, Balsale Heath, near Birmingham; J. Walford, Birmingham; W. Richardson, Balsale Heath, near Birmingham; J. Walford, Birmingham; R. Amphlet, Edgbaston; E. Pickering, Edgbaston; H. G. Quilter, Aston; and W. Howell, Birmingham.

SUTTON LODGE CHEMICAL COMPANY.—Capital 60 000l., in 100l. shares. To carry on business as chemical manufacturers at 8t. Helen's The subscribers (who take one share each) are—J. Cannington, Ford street, Liverpool; E. Cannington, Liverpool; E. Eramwell, St. Helen's; J. Shaw, St. Helen's; W. G. Bennett, Prassia street, Manchester; J. C. Cannington, St. Helen's; A. R. Cannington, Ford-street, Liverpool.

#### ECHOES FROM THE MINING MARKET.

The market has scarcely been so active as last week, although tin

ECHOES FROM THE MINING MARKET.

The market has scarcely been so active as last week, although tin stock remains firm, and shares in the leading mines appear to be rather scarce. Colliery shares are still being absorbed by the public, the sudden change in the weather and consequent upward tendency of the coal market having had a stimulating effect upon investors, who can now buy on rather favourable terms. Copper mine shares are a little easier, but as there are strong symptoms of a further improvement in the metal, low-priced shares are in pretty fair demand. This has been particularly the case in Parys Mountain shares, as they would be largely affected by any rise in copper. The statistics of the tin trade for the month of October show a satisfactory in crease in the demand. Prices have appreciably advanced, consequent, it is said, upon the extended requirements of our home smelters, who have taken some very large quantities. So far we have a cheering state of affairs. On the other side, however, we notice that imports have been high, those from Australia having reached 1000 tons. It does not seem likely that we shall yet awhile witness (what is so much wanted for the home trade) any material diminution in imports, therefore for an improvement in tin we must look rather to increased demand. It is a matter for congratulation, therefore, to notice that this is actually taking place. Foreign mine shares, with the exception of Richmond, have partaken of the general quietude, and but little has been done in them. Richmond shares have advanced upon further favourable telegrams, but the present price is scarcely the best that has been seen during the week. The mine, however, is turning out very large quantities of ore, although apparently of a very low grade.

A little reaction has occurred in Peevor shares, consequent, probably, upon some holders taking their profits. The latest accounts, however, show that the mine on tinued as when he had a paparently of a very low grade.

A little reaction has occurred in Peevor

was of decidenty a personal character, and implements of decidenty a personal character, and implements of the unfortunate mode of procedure of the West Chiverton committee in the matter of their staff has apparently infected a portion of the adventurers in South Condurrow, who are making an attempt to turn out their officials also. The circular embodying the complaints against the management were only sent to those known to be favourable to the change, without any consultation of the remaining body of adventurers. We think the present managers of the mine have good reason to complain of such unfair proceedings, and we are glad to notice that some of the shareholders are offering strong opposition to the entire proceedings.

James H. Crofts.

THE MID-CORNWALL MINES.—The property belonging to these

#### Electings of Public Companies.

WEST WHEAL SETON MINING COMPANY,

WEST WHEAL SETON MINING COMPANY.

The general meeting of shareholders was held on the mine on Tuesday, Mr. P. P. SMITH in the chair.

The usual preliminaries having been disposed of the accounts were submitted, showing a loss on the three months' working of 3022. 9s., which, deducted from 1057l. 12s. 2d., the balance at previous account, left a credit of 755l. 3s. 2d.

The CHAIRMAN having referred in very kind terms to the loss they had sustained in the death of Mr. O. Matthews, and having put the motion for the accounts (which was agreed to), said that the next business was the election of purser. So far as he knew there had been two candidates in the field, Mr. Pryor and Mr. Walter Pike. Both of them were of great intelligence and large experience, and so far as he was concerned the election of either would have been perfectly satisfactory. However, it would be for the adventurers, after hearing what he had to say, to decide. A neutral friend had suggested that it would be extremely desirable to prevent any unseemly contest, and that in order that the respective strengths of the candidates should be ascertained, their promises should be submitted to him (Mr. Smith). That was done, and he found that Mr. Pryor had the largest promises of support. Upon that Mr. Pike, acting in that honourable and straightforward manner which he (Mr. Smith) had felt sure would distinguish him, had withdrawn his candidature. It was a part of the arrangement under which he (Mr. Smith) undertook to look through the promises that whoever had the largest number should be proposed from the chair, and accordingly he begged to propose Mr. Pryor.

Mr. Hidder Schaller Schaller

GREAT EAST FOXDALE SILVER-LEAD MINING COMPANY.

The ordinary general meeting of shareholders was held at the

offices of the company, Seel-street, Liverpool,
Mr. TIMOTHY HUGHES in the chair.
Mr. THOMAS HUGHES (secretary) read the minutes of the last
general meeting, which were thereupon confirmed. The directors'
report was taken as read. The report from the agent of the mine

general meeting, which were thereupon confirmed. The directors' report was taken as read. The report from the agent of the mine was read, as follows:—

Oct. 28.—You are aware that my appointment as agent to the above mines dates from June 6 last, consequently my remarks for the general meeting commence from that date. The 86 fathom level has been driven 9 fms. 1ft. (making a total length from the engine-shaft of 11 fms.); the lode has been intersected, and is at this point about 7 ft. wide. It has been driven both east and west about 9 fms., and in both ends there is valuable silver-lead ore, at times 4 in. wide solid, and has every appearance of continuing. It is evident from the well-defined and regular walls of the lode at this depth and the increased quantity of ore that the formation below is more settled than in the levels above, and leaves little or no doubt of its turning out to be a productive and rich lode in depth. In the 53 there is no driving going on at present. In the roofs of this level east there is a valuable but short stope, now being worked with every prospect of its lengthening as we go up. The 40 east has been driven upwards of 21 fms., yielding occasional stones of lead ore and blende. The last 10 fms. have been extremely wet, and the underlie changed from north to south. I was in hopes of meeting with an improvement in this level renow, but up to the present time there is no discovery of importance. The indications holding favourable the driving is still going on. This is the only level driving on the Crown property, and it is now about 125 fms. east of the engine-shaft. The old engine shaft has been cleared out and repaired from the 53 to the 85 fm. level, which has greatly improved the ventilation in the bottom of the mine. We have also put in ladders, and it now serves as a footway. It has also been repaired, and ladders put in from the 30 to the 40 fm. level. A sump or winze from the 15 to the 30 fm. level has also been cleared, repaired, and ladder-way put in. In doing this we disco

this report by expressing it as my opinion that you will at no distant date open out a rich, lasting, and profitable mine. — EDWARD BAWDEX, Jun.

The CHAIRMAN said he was glad to state that the report which had just been read, although a cautious one, was the best they had yet received from the mine. He regretted that the directors could not speak more favourably of the returns of dressed ore; however, he considered that, on the whole, the report was a very satisfactory one, and showed that there had been a large amount of work done, and a fair extent of ore ground opened out. He had every confidence in the new agent, Capt. Bawden, and trusted that as he had now completed the dressing-floors he would be able to keep them going. As far as his own convictions went he felt sure that the mine would be a great success, and he hoped that before the next general meeting they would not only be paying costs, but dividends also. He would now propose the adoption of the report and balance-sheet as presented. —Mr. Cowize moved, and Mr. MATHER seconded, that the report and balance sheet as presented be received and passed, which was carried unanimously.

Capt. BAWDEN then replied to questions from some of the shareholders respecting the value of the drivings in the new levels, and the probabilities of soon being able to keep the dressing-floors constantly at work. He said he had every hope that in the course of two months they would be in a position to make regular returns of ore for market, and he felt certain that when the shaft was sunk another 15 fms., so as to drive a new level to reach the ore going down from the 68, they would find the lode increased in width and rickness. He spoke from experience and from the knowledge he had of the district, for he had worked for many years as underground agent at the Foxdale Mines; and he could safely say that as far as at present seen the lode cut in the 68 promises to be as rich as any in the district. Depth alone was required to make the mine a good and lasting one.

Mr. WALKER

#### CHICAGO SILVER MINING COMPANY.

The adjourned ordinary meeting of shareholders was held at the offices, Finch-lane, on Nov. 6,

Rear-Admiral Lord John Hay, C.B., in the chair.

Rear-Admiral Lord John Hay, C.B., in the chair.

Rear-Admiral Lord John Hay, C.B., in the chair.

The Secretary having read the notice convening the meeting,
The Chairman said that, after the long time that had elapsed, the
directors had the pleasure of presenting the shareholders with reliable accounts
made up to June 30, the delay having arisen entirely through the company's operatious being carried on at a distance. He believed he and his colleagues also had
entire confidence in the integrity and ability of the staff employed in Utah. It
was no doubt within the knowledge of the majority of those present that at the
meeting held in March the directors were obliged to present approximate accounts, those that had been received from Utah to that time being unreliable as
far as the classification was concerned, consequently in those now presented several
alterations would be observed, some good as regards their unancial position, and
some the other way; but he had entire confidence in the correctness of those now
presented. On a former occasion the shareholders had been informed that they
had, in the erection of furnaces, ropeway, and other permanent improvements, not
only exhausted the capital subscribed for that purpose, but had found it necessary
to appropriate a considerable amount of the profits carned; these works had been
completed and paid for, so that all future profits would be available for the payment of dividends. The mine at present consisted of two shafts—the Chicago and
Rambler—the former has obtained a depth of 853 ft., and the latter 653 ft. The
output, there was no doubt whatever, had not been so large as expected, nor the
quality as good as the original assays had led them to believe, but from recent advices an increased output was anticipated. At the meeting, in March, a shareholder questioned the propriety of erecting two furnaces, but from what had come
to their knowledge there could be no question that it was sound policy to have

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done so, as smelting in itself was a very profitable business, and one on which they done so, as smelting in itself was a very profitable business, and one on which they could safely calculate, while mining was uncertain. Numerous mines were being opened in the vicinity of their furnaces, from which they could purchase ore, and in a short time a railway from Salt Lake City would run through the works; this would be an immense advantage to the company in the rates paid for freight to and from that city, which was their commercial centre. The shareholders were aware that a payment had recently been made on account of dividend, small it is true, but still out of profits consisting of good assets in Utsh and cash remitted here. In making this payment the profits for September and October had not been considered. He thought the affairs of the company were improving. The directors had given them every care and attention, and the shareholders might rely on their continuing to do so. He moved the adoption of the report and accounts. The motion having been seconded by Mr. Mellon, Mr. MUTTLEBURY said he would like to know what the profits had been for July, August, and Exptember. He objected to the payment of small dividends at intervals, and thought it would have been better to have kept the money in hand, and put into the smelting branch of the company's business, and extend that. He also thought the price paid for the mine was excessive, considering it had not turned out nearly so good as represented.

Capt. Morrison, Mr. Andrews, Mr. Canton, and Mr. Walker also put questions, and it was suggested that directors should communicate with Mr. Godbe, with a view to his returning some portion of the fully-paid shares which were given him in part purchase of the mine, so as to considerably reduce the very heavy weight with which it was undoubtedly burdened; or, in the event of his not being able to do that, to give the company some of the other mines which belong to him. The shareholders considered he was bound in common honesty to do something of the kind.

of the kind.

The CHARMAN stated that the net profits for July were \$8000; August, \$8000; and September, \$5500; and promised that the board would communicate to Mr. Godbe the opinions expressed by the meeting.

The motion adopting the report and accounts was put, and carried unanimously. Mr. J. H. Richardson was elected an additional director.

A vote of thanks was passed to the Chairman and directors for their able management of the company's affairs, when the proceedings terminated.

#### PANULCILLO COPPER COMPANY.

The eleventh ordinary general meeting of the shareholders was

The eleventh ordinary general meeting of the shareholders was held yesterday at the London Tavern,

Mr. John Pender, M.P., in the chair.

The notice calling the meeting was read by Mr. J. S. Alexander, the secretary; the directors' report was taken as read.

The Chairman said it was quite unnecessary for him to go into details, because the report set forth very fully the present condition of the company. No doubt last year had been a very disastrous one, but the report showed very clearly how the losses had occurred; it showed also that under the same circumstances (of course taking into consideration the reduction in the price of coal, the improveinto consideration the reduction in the price of coal, the improve-ment in the lay of the lode, and other savings), instead of being a losing the mine ought to be a paying concern. There were gen-lemen present who understood the question of the copper market much better than he himself did, and there was no doubt that the future of this mine depended in a great measure upon a fair price being obtained for conver. The establishment was in a most effi-

into consideration the reduction in the price of coal, the improvement in the lay of the lole, and other sawings), instead of being a losing the mine ought to be a paying concern. There were gen-lemen present who understood the question of the copper market much better than he himself did, and there was no doubt that the himself did, and there was no doubt that the himself did, and there was no doubt that the himself did, and there was no doubt that the himself did, and there was no doubt that the himself did, and there was no doubt that the himself did in t

The object of the directors was to do the best they could for the interests

holders. The object of the directors was to do the best they could for the interests of the company.

The Chairman said he would take the opportunity of seconding the recolution to thank the shareholders for the honour they had done him in again electing him one of the directors. The directors had had a long and arduous task, and so far the result had been disappointing; but many of the shareholders must be well aware of the circumstances which had led to those disappointing results. The prospects were now looking better, and the directors were desirous, if supported by the shareholders, of continuing the working of the mine. As evidence of the earnestness of the directors, they were themselves willing to take 30,000. of the debentures which it was proposed to issue. If the tide turned in the company's favour all these debentures would soon be paid off; but if the shareholders refused to find the money almost every shilling which they had already invested would be lost. He might mention that the interest on the debentures had always been paid up to the present time.

fused to find the money almost every shilling which they had already invested would be lost. He might mention that the interest on the debentures had always been paid up to the present time.

Mr. PARSONS said he had no word to say against the management of the company, which he believed had been carried on in the best manner possible under the circumstances: but, speaking for himself, he must say he failed to see how the company could be carried on to the advantage of the shareholders generally. The price at which the shares were now quoted was a clear indication of the amount of confidence which the [shareholders felt in the company. He believed it was seven years since a dividend was poid, and the great reason they had not received a dividend was that the directors had not been able to restore the 50,000% of capital which had been lost (which was now increased to 70,000%), and which must be restored before any dividend could be declared. He suggested whether it would not be possible to wind up the e-mpany and write off this loss of 70,000% entirely, and then reconstruct the company with a smaller capital, in which case any profit which might be made could at once be divided amongst the shareholders, as there would not be possible to wind up the storing the 70,000% of lost capital. He believed that if this were done the shareholders would willingly come forward and subscribe the money required.

Mr. F. J. Johnston said the directors were obliged for any suggestion which the shareholders might make, but he asked whether Mr. Parsons expected that people would come forward and take shares in a new company?—Mr. Parsons and take the shares in the new company.

Mr. Johnston said that they could not force the present shareholders to take

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Mr. JOINSTON said that they could not force the present shareholders to take shares in a new company.

Sir WILLIAM DRAKE also said he thought that there were other practical difficulties to a reconstruction being carried out, and pointed out that it was absolutely necessary to have the 75,000, and he could not clearly see how Mr. Parsons proposed to obtain that. At the same time, the suggestion was well worthy consideration, and perhaps Mr. Parsons would formulate his proposition, and give the directors an opportunity of considering it.

Mr. PARSONS said he believed that if the lost capital were written off, so that the shareholders would manimously come in and subscribe for the debentures.

A SHAREHOLDER thought that it would be desirable for two or three large shareholders to confer with the board, with the view of seeing what was best to be done thing, for they would simply pay on the reduced capital a larger dividend apparently, because proportionately it would be the same as if paid on the larger capital. After some discussion, in the course of which a very general desire was shown to support the course recommended by the directors, the resolution for raising the \$5,000%, on debentures was put to the meeting, and carried unanimously.

With the full consent of the board, a small but influential committee was appointed to confer with the directors, with the view of seeing if the course recommended by Mr. Parsons, or any other course, can be adopted which will be likely to benefit the company.

The GOAL CONSIMERS' ASSOCIATION.

#### THE COAL CONSUMERS' ASSOCIATION.

A general meeting of shareholders was held yesterday (Friday), at the City Terminus Hotel,—Lieut.-Col. T. J. Holland, C.B., in the chair. The report was taken as read.

The Chairman stated that the directors had closed 24 of the country depots, which were very expensive, and that they had succeeded in obtaining possession of the Silkstone Main Colliery, and

country depóts, which were very expensive, and that they had succeeded in obtaining possession of the Silkstone Main Colliery, and were thus able to supply their members with coals from their own property. The business of the company, he believed, was now being carried on without a loss. The head-office rent and all fixed salaries, which in February last amounted to 8074. Per annum, had been reduced to 29011, representing a reduction of more than 50001, per annum; 24304. 18s. 11d. had been inserted in the balsucesheet as depreciation of plant, premises, rolling stock, &c., as well as a further 30000, as a reserve against undry debtors. After further allusion to the items in the report, the Chairman stated that upwards of 80,000 tons of coal up to the present time had been delivered to members, and the directors hoped that the association, being organised on a more economical scale, would be able to arrange in future for a prompt and regular delivery of coal to all shareholders.

The adoption of the reports was seconded by Mr. A. H. COCKERTON.

Mr. HULBERT complained at some length as to the previous management of the company, and stated that out of the capital of 78,9000. there had been an actual loss of 16 4354. He ultimately moved an amendment to the effect that a committee of investigation be appointed, and that the acceptance of the report be adjourned until the report of the committee on the company's affairs was presented. The amendment having been seconded, Mr. Aubrey pointed out various instances in which he considered that the directors were much to blame for allowing Mr. Brice to mislead them, as it appeared that he had done. The speaker then moved another amendment suggesting that the directors' report should not be received, and that a committee of seven independent shareholders be appointed to examine into the company's affairs, giving the committee power to call for any books and papers, and that the meeting be adjourned until the committee had issued a report.

Dr. STALLARD seconded the amendment

SOUTH WHEAL FRANCES.—The meeting on Monday terminated SOUTH WHEAL FRANCES.—The meeting on Monday terminated as it was generally hoped it would by all who understood the real merits of the case. These constant attempts to displace old, experienced, and trustworthy agents throughout the country would soon eease were shareholders generally to act in the same manly and straightforward manner as the South Frances shareholders have done on this occasion. Local shareholders do not so much object to London committees as they do to the arbitrary power exercised by their subordinates acting as secretaries, who, in a majority of instances, exhibit an intense lack of acquaintance with even the commonest rudiments of practical mining, and which becomes all the more apparent when they come down into a mining county.

[For remainder of Meetings see to-day's Supplement.]

#### MINING NOTABILIA.

[EXTRACTS FROM OUR MINING CORRESPONDENCE.]

PENNERLEY.—It may be some comfort to your correspondent to now that the monthly profit of 200% in Pennerley has just squared the debit and edit account of the mine, and that if all matters proceed favourably we may some horse of a dividend.

know that the monthly profit of 200% in Pennericy has just a factor of the mine, and that if all matters proceed favourably we may soon hear of a dividend.

HINGSTON DOWN CONSOLS.—An important discovery has been made during the past week in the 110, west of Bailey's shaft, the lode proving worth 30% per fathom, with every appearance of a still greater improvement. In the 150 there is also an important change for the better. The value of these improvements can scarcely be overrated, the one being in the very bottom of the mine, proving the course of ore in the upper levels to be holding down, and the other evidently entering another great course of ore in the unexplored ground stretching away for a considerable distance in the western portion of the mine.

TAN-YR-ALLT (Cardiganshire).—As may be seen by the report, this mine continues to open up well—thus proving what well-laid out capital on a judicious selection can do. This mine was commenced by a few gentlemen at the commencement of this year, with a trial capital of only 2000%; and it was first necessary to erect a water-wheel to pump the mine. After the water had been forked, the deepest point was found to be only 9 fms. below adit, where the north and south lode had been cut but not worked upon. It was determined in a lucky moment to sink to 12 fms. before driving on the course of the lode, and they only sunk 18 in. when they cut one of the richest courses of the lode, and they only sunk 18 in. when they cut one of the richest courses of ore ever seen in the district at such a depth, it being 10 in. solid, besides ore throughout the lode; and this continued down to the 12 fm. level, in the back of which it may now be seen. It was then determined to go 30 fms. further south and sink a new winze from adit, and there, after 5 fms. sinking, they have also cut a fine course of ore, which there is every reason to suppose is holding back for the 30 fms. to the other winze, from which they have driven 7 fms., leaving 23 fms. to communicate. On the whole, this mine

A large business has been done during the week in SOUTH PRINCE
PATRICK. About 600 shares have been sold, at 3. each. Shares have been offered
by brokers at 21., but they could not supply them. One broker offered 601 in the Mining
four not some weeks ago. They were wired for, but his reply was—"It is a mister." This is unfair.

west Escare Lle.—Western Mine: All works at this mine are West Esgair Ller.—Western Mine: All works at this mine are going on well, and there is no alteration to report in any part. The late improvement in the 10 fm. level east still continues. Dressing ore is carried on as usual.—Eastern Mine: The lode in this mine has greatly improved in two or three important points, and altogether the mine is opening out splendidly. A level mas been started at the 34, where the lode is carrying fine stones of lead already, although the ore-bearing part is not expected to be reached for 10 ft. yet. The 24 east is looking better; the lode in this end is worth a good 30, per fathom for copper and lead. The lode in the 24 west has not been taken down. The 10 east continues to look well; this level has been driven now through a long piece of ore ground, valued throughout and in the present end at 20, per fathom. The stopes in the back of this level are looking well, andlevorth fully 26, per fathom for copper and lead. Altogether, the mine is being developed in a most encouraging manner. The whole of the machinery in both mines is in good order.

BORING APPARATIS.— Messrs. BRYDON, DAVIDSON, and GREY, of Whitehaven, have p tented an invention which relates to the combination of a pump or such an apparatus and arrangement as will allow of the passage of the borings into the interior of the pump with a boring chisel or boring apparatus, so that by the borings p sing into the interior of the tube the cutting portion of the boring chisel may be kept free; and consists in the eraployment of a pump or hollow tube of a suitable diameter and length, to the upper portion of which is fixed a pin; this pin is so arranged that it may be sorewed into or attached to the boring rods. Another pin is fixed in the lower portion of the pump or tube, to which is sorewed or attached the boring chisel; on the sides of this pin are several holes uniting in one oceatral channel, and communicating with the interior of the pump or tube, at

the upper portion of which channel is placed a ball so as to constitute a valve immediately above this ball or valve is placed a cross bar to prevent the too displacement of the ball on the downward movement of the boring approximately

#### ECONOMIC MANUFACTURE OF COKE-THE COPPER COKE OVEN.

COKE OVEN.

Upon the first introduction of the Coppée system of coking at the works of the Ebbw Vale Iron and Coal Company's works, in Momouthshire, it was pointed out that the advantages of the process were that the largest possible proportion of the carbon contained in the coal was retained, and the heat of the gases were utilised to the the coal was retained, and the heat of the gases were utilised to the production of steam; at the present time there are upwards of 200 evens upon the Coppée principle, and it is gratifying to find that these statements have been fully verified, the invention being in consequence, attracting much attention. The great economy of the undertaken by an influential company—the Coppee Coke Coxpany, of Gracechurch-street—which has already met with considerable success) is no doubt principally due to the rapid combustion in the surrounding flue of the ovens, of the volatile gases surrounding the coal creating a very high temperature, which is uniformly maintained—the ovens, in fact, never being permitted to cool. The Coppée ovens, as will be seen from the above diagram, are placed together in groups of two and two. The flames from the two ovens of the same group pass through a series of openings, a, a, made in the arch, and circulate through suitable channels around the oven, then passing beneath the sole of the adjacent oven enter by a vertical flue, c, into a common conduit, A, which first goes beneath the boilers, and then leads to the chimney. The gases are burnt in the oven at d, d, and the other entering the vertical flues at e.e. The admission of air is regulated in the former case by the slide-bars, and in the latter case by the slide-bars, F. Galleries under the brickwork are traversed by currents of cool air, which cool and preserve the construction. The air enters at the end of the sein, and above the level of the ovens, descends and traverses four brit galleries below the ovens, and on reaching the centre of the structure ascends to flues which lead through the ovens are ascends to flues which tead through the overs to the chimneys. To diminish the loss of heat the tops of the overs are covered with bed of clay about 18 in, thick, on which bricks are laid. The odinary dimensions of an oven are—Length, 9 m., width, 045 m.; height, 1°20 m., for a coking of 24 hours. For a coking of 48 hours the width is 0°60 m., and the height 1°70 m. The ovens are quickly all at the tops above inc hoppers.

the width is 0.60 m., and the height 1.70 m. The ovens are quicky filled by three charging hoppers.

The ovens are usually charged with coal once every 24 hours and the coals are crushed before being placed in the oven to a cans dust. The ovens are filled with coal from the top, by means of three holes, over which three wagons containing the exact quantity of coal to be used are placed before the coke is removed from to oven. At each end of the oven are two doors, the lower being 3 fi and the upper door 1 ft. in height. Between each two ovens are number of vertical channels, which lead from the top of the ore and convey the gases to the horizontal flues, one of which runsumize each oven. The ovens are arranged, the gases from each two ores pass down the vertical channels referred to, passing into the his zontal flues, from which they take their course into a large change running at right angles to the ovens. The hot gases pass from the channel either direct into the chimney or under one or several bolion. The great heat which the gases leaving the ovens attain has must The great heat which the gases leaving the ovens attain has mit necessary to have a series of cooling flues placed beneath the far for carrying the gases. These flues are open at each end of the black.

of ovens, the air passing in at one end and out at the other.

The essential feature of the Coppée oven is the double admiss of air, so as to facilitate combustion, the result being the entirep The essential feature of the Coppée oven is the double admiss of air, so as to facilitate combustion, the result being the entirps vention of smoke; but there are other characteristics which a of considerable importance. Amongst these are their small will and an arrangement of channels especially suited for poor coalsy to combination of all the hot gases in a large conduit beneath to ovens, and their utilisation for heating boilers; and the gallerish cooling and preserving the brickwork. It will thus be seen that the Coppée system of constructing coke ovens a large surface small coal is exposed to a very high temperature. This high temperature is always maintained, varying only very slightly at time. Consequently there results, firstly, rapidity of operation of Coppée oven will turn out at least as much as two ording bethive ovens. This is easily understood when it is remember that the coke from the Coppée oven is cooled outside, and the ore-filled in a few minutes. The coal, failing into a narrow chank raised to an intense heat by the previous charge, commences buing on all sides at once, and, being very fine, it is in the best adition for giving off its gases rapidly. By the arrangement of flues and the plan of discharging alternately, the cool gases given of the oven just filled promptly mingle with those of thereis to bouring oven, which by this time is giving off its gases at the highest temperature. The mingling of the gases raises the temperature of the one oven almost immediately to that of the other, the avery high and uniform temperature is maintained. The thinks of small coal burns on all sides at once, the volatile gases are rapid expelled, and the oven is ready to be drawn in one-third the trequired by the ordinary ovens.

The advantage of keeping the ovens constantly heated will

of small coal burns on all sides at once, the volatile gases are rapicly and the oven is ready to be drawn in one-third the trequired by the ordinary ovens.

The advantage of keeping the ovens constantly heated will readily understood. Usually the oven is cooled after each chap has been coked, the next charge being necessarily thrown intocoled oven. A vast quantity of heat is absorbed in raising the perature of the oven sufficiently to coke the coal: the volatile gas escape directly into the atmosphere and do very little towards by ing the coal, which in these ovens is chiefly effected by the combination of a portion of the fixed carbon. The coal commences to be at the top, it cokes gradually downwards, part being complete burnt away before the rest is ready, hence the loss in yield. In Coppée ovens a thin layer of ground coal is introduced into an or already in an incandescent state, the coal is attacked on every at once, the volatile gases of neighbouring ovens mingle and are sumed in flues all round, keeping up the high temperature. In entire contents of the oven are coked all together before any of fixed carbon has been burnt. Within 2 per cent. of the theories yield can be obtained in the shape of coke. The third result is improved quality of coke. Only a little reflection will render the parent that the high and even temperature to which a thin layer coal reduced to small particles of equal size is submitted by comes will. Presuming that the coal from which it is made is a before the core and denser than the ovens will. Presuming that the coal from which it is made is subjected to a blast, and to bear a weight of metal in a furner.

The Coppée system is likely to be as weight of metal in a furner. subjected to a blast, and to bear a weight of metal in a furnishmen as by their employers, for, although there is a slight sails labour, it would not lessen the number of hands to be employers.

whilst the advantages which the master will secure in other whilst the advantages which the master will secure in other tions will entirely obviate the necessity of lowering the waste men. For the utilisation of the waste gases for the product steam the Coppée ovens are particularly adaptable. No expense is required to the ovens themselves for flues, &c. There is the ordinary cost of boiler and chimney, which can be added group of ovens at any time. The quantity of steam produced with the quality of coal and the system of boiler. From 2 to 4 power per oven can be obtained. Experience on the Contings shown that some qualities of coal, which are not sufficiently minous to coke in ordinary ovens, will coke in the Coppée minous to coke in ordinary ovens, will coke in the Coppée coal will not coke, but which might probably be utilised for coal will not coke, but which might probably be utilised for purpose if treated on the Coppée system; and, although upon the compensation of the compensation of the compensation of the coal will not coke, but which might probably be utilised for the coal will not coke, but which might probably be utilised for the coal will not coke the coal will not coke and the coal purpose if treated on the Coppée system; and, although uparing the first cost of the ordinary and of the Coppée orac cost of the latter is nearly 20 per cent. greater, this is muthan compensated for by the fact that the Coppée oven the quantity of coke in a given time. The Coppée has more the Quantity of coke in a given time. The Coppée has more the Coppée oven can be emptied and re filled in eight minutes the Coppée oven can be emptied and re filled in eight minutes the ordinary oven requires over sixty minutes. The cole part of the cole part

ng the pum water pump n as the inv fully refe

many ye ggling unde nd it has he Grand Trui is of weary on the high red to such as to Bonds stan se of the n of steel rail sibly reduce verted through nged with A as with Chica ace of obtain n the interi The wor itely heavy, s, there appearsed in this r

onnection with a ending with a ending wat in its hist wrent earning. e Grand Tru on than that the dit was at the cern in the face of 1300 mill rails in the Niagara iagara river

refuse is materially reduced, and the general cost of the labour charge refuse is materially reduced, and the general cost of the labour charge per ton of coke made (11d., as compared with 1s. 3d.) scarcely exceeds two-thirds. Owing to the quality of the materials, the very regular action and the non-application of water inside the ovens, the cost of repairs is very small, and it is stated that a block of ovens in Belgium, which has been twelve years at work, has cost less than 7s.

cost of repairs it also states that a block of evens in Belgium, which has been twelve years at work, has cost less than 7s. Per oven per annum for repairs.

An interesting comparison of the Copi 6e and common beenlive ovens was made by Mr. Bainbridge in a paper recently read before the Institute of Mining and Mechanical Engineers. Taking the production of 2 tons of coke per day as the unit of calculation, he found that the first cost was 100% for the Coppée, and nearly 120% for the common oven; that whilst the process was completed in 24 hours in the Coppée, from 48 to 120 hours was required; that the yield was 59 per cent. washed, or 68 per cent. unwashed in the new oven, against 45 per cent, and 54 per cent. respectively in the common oven; that the new oven can be emptied and re-filled in eight nimutes, whilst 60 minutes is required when the common oven is used; and that whilst only 966710 units of heat can be obtained with the waste gases given off from the common oven, the new oven rields 1,401,584 units. As the gases evolved from the coal when the Coppée oven is used are all entirely consumed, any nuisance to the yields 1,401,554 units.
Coppée oven is used are all entirely consumed, any nuisance to the
coppée oven is used are all entirely consumed, any nuisance to the
coppée oven the transport of the consumer of the neighbourned and the facilities which the new ovens offer for the consumption of and the facilities which the flew oversioner for the consumption of slack—the coal being, as already mentioned, used in the form of powder—will be recognised as an important advantage.

#### IMPROVED MINE MACHINERY.

With a view to facilitate the more speedy and economic development of mines, by the introduction of machinery to supplement the now somewhat scarce supply of manual labour, Messrs. WILLIAMSON and PARSELL, of Saundersfoot, Pembrokeshire, are introducing a supplement of the control of the con ad PARSELL, of Saundersfoot, Pembrokeshire, are introducing a sw patent pump and an improved steam-engine, boiler, and air comotive for underground haulage. Taking for example a Cornish ndensing engine now at work at a well-known colliery, 80-inch flidder, 10-ft. stroke in the house, and 8-ft. stroke in the pit, single sting, low-pressure, with steam at 12 lbs. pressure (sometimes nown to require 20 lbs. per square inch), a comparison is made of that can be done by it working ordinary pumps and working the steat pump. The pump works three lifts, and he estimates 640 sllons per minute raised 105 fms. to the surface as the maximum sestite that can be lifted. Working the patent numb, this engine allons per minute raised 105 fms. to the surface as the maximum instity that can be lifted. Working the patent pump, this engine, ight 12 lbs. of steam on the square inch, would raise 2600 gallons for minute from a depth of 105 fms. Hence, it is remarked that this brish engine, as at present worked, requires 12 lbs. pressure of team through all the strokes 10 ft. long, and (say) 5 strokes per minute—equal to 50 ft. length of steam; whereas the same engine ombined with the patent pump, working with the same pressure of steam (12 lbs.), cut off at 1 ft. of the stroke, making 25 single the representations of the strokes are injurte—equal to 25 ft. of steam, thus showing in favour If steam (12 lbs.), cut off at 1 ft. of the stroke, making 25 single tokes per minute—equal to 25 ft. of steam. thus showing in favour the patent pump about four times the quantity of water raised, and with one-half of the steam used as at present, with a saving or ain of 300 per cent. on the pumping and 600 per cent. on the coal ossumed. However, take it one-half—a saving or gain of 150 per ent. on the pumping and 300 per cent. on the fuel is an object not be overlooked these times. And further, that one great advange in the patent pump would be in the extreme lightness of the itwork, as all the pipes required could be made of wrought-iron to the pumping and thickness. or 3-16ths in. in thickness.

itwork, as all the pipes required could be made of wrought-from any \(\frac{1}{4}\) or 3-16ths in. in thickness.

With regard to the steam-engine, boiler, and air locomotive, for amming and underground haulage, it is truly stated that the aplication of compressed air has for some time taken up the attention f practical and scientific men, and more so lately from the great set of fuel, labour, and horse-power. Taking an extensive Glamorashire colliery, for example, it is shown that 150 horses, with a river and boy to each horse, costs 6000, per week, or making the cessary charges and deductions 30,000% per annum; whilst the dimated cost of working by air locomotives underground—say, blorse power patent steam-engine, with three air-compressors, see miles of pipes, four stop-cocks, six air-vessels of 2 tons each, me small air-locomotives, and for fitting apparatus in pits, &c., is 50. The annual expenses or working costs, including 10 per cent. therest on the 7456%, above mentioned, would be 32616, showing difference of 26,739%. In favour of air locomotives doing the same difference of 26,739%, in favour of air locomotives doing the same antity as 150 horses in hauling from 800 to 1000 tons of coal

lerground.

To carry out this estimate each air locomotive will be fitted with To carry out this estimate each air locomotive will be fitted with opatent annular reciprocating engines, for utilising the power of Apressed air from a pressure of 120 lbs per square inch down to out 4 lbs. before being exhausted. Also, the locomotives may be ted with two or more air vessels—say. 4 ft. diameter by 4 ft. high connected at the top and bottom with swivel joints, so that the gine may turn at short angles, two wheels being placed in front the air vessels and two behind, the bottom of the air vessel reachguith a few inches but clear of the road, and any number of air seels may be connected to the locomotives. If the levels, or main das, are 4 ft. 6 in. high and 5 ft. wide the engine will have room bught to work. When the air locomotive starts the pressure of air in pressels will be 120 lbs. per square inch; so that the average pressure Ms. are 4 ft. 6 in. high and 5 ft. wide the engine will have room bugh to work. When the air locomotive starts the pressure of air in revessels will be 120 lbs. per square inch; so that the average pressure the piston for 800 strokes is 70 lbs. per square inch, and expanded wn to 4 lbs. when exhausted. It is claimed that the engine and ller, with other improvements, including air condensor, when abined, are particularly applicable, and intended for tramways I traction engines working through streets and other populated tricts as there will be no pointed and expert from a team ruffing. ricts, as there will be no noise nor danger from steam puffing, nuisance from smoke, as anthracite coal will be consumed and the waste steam condensed. There is a further advantage in me the pump in collieries and mines, which is that for ever gallon water pumped about 7 cubic feet of foul air is exhausted. As ventions are in practical operation the subject will be fully referred to.

#### AN OLD FRIEND UNDER A NEW FACE.

many years the Grand Trunk Railway of Canada has been grimany years the Grand Trunk Railway of Canada has been a ggiling undertaking. It has an inadequate population to support and it has had to contend against climatic difficulties of the most midable character. As if all this were not enough, the gauge of Grand Trunk, as originally laid down, differed from that of shouring American railroads, so that it was difficult for the control to exchange traffic with its neighbours. But, after 12 or 14 ts of weary disappointment, the Grand Trunk seems to be at last at the high road to something like prosperity. Its credit has reed to such an extent that we find the second Equipment Mortello of the more important points along the line: the introducome of the more important points along the line; the introduc-tof steel rails which can resist the Canadian climate bids fair to sibly reduce maintenance charges; and the gauge has been verted throughout the main line, so that traffic can now be ex-aged with American systems. Having opened up business relaaged with American systems. Having opened up business rela-as with Chicago, the Grand Trunk appears now to have some see of obtaining a fair slice of the transportation of commodities a the interior of the American continent to the Atlantic sea-nd. The working expenses of the Grand Trunk are still propor-ately heavy, but now that there is a prospect of a reduction in dy heavy, but now that there is a prospect of a reduction in mance charges in consequence of the employment of steel there appears to be a reasonable chance of an amelioration being sider appears to be a reasonable chance of an amenoration being ad in this respect. Anyhow, the great tangible fact established inaction with the working of the Grand Trunk in the six has ending with June 30, this year, was that for the first time at in its history than 20, this year, was that the provide out of at in its history the undertaking was enabled to provide out of arms earnings for the interest accruing on its first preference is.

se Grand Trunk is certainly now in an incomparably better po he than that which it occupied (say) five years since. Then its lit was at the lowest ebb, and bankruptcy seemed to stare the sen in the face. But since they the company has altered the sem in the face. But since then the company has altered the sent in the face. But since then the company has altered the sent is sold miles of line; it has laid down about 800 miles of lails in the track; it has constructed an expensive bridge over Niggara river; and it has obtained an increased and thoroughly agara river; and it has obtained an increased and thoroughly

efficient supply of narrow gauge rolling-stock. In short, the Grand Trunk has prepared, in spite of the natural disadvantages of geographical position and climate, and during we period of somewhat severe Transatlantic depression, to take advantage of the better times which the directors confidently believe are in store for the undertaking and for North America generally. The successful introduction of steel rails on the Grand Trunk is obviously a marter of great moment, and importance to the Canadian railway interest. undertaking and for North America generally. The successful introduction of steel rails on the Grand Trunk is obviously a matter of great moment and importance to the Canadian railway interest generally. Formerly traffic was conducted upon the Grand Trunk during the long winter months with considerable danger, great difficulty, and heavy cost. Iron rails, even of the best quality obtainable in England, were always breaking, and the company re-rolled them only to have them break again. When Mr. Allport, general manager of the Midland Railway (of England), went over the Grand Trunk three or four years since he described it as the most deplorable and wretched piece of permanent way which he had ever witnessed. Now—mainly with the help of steel rails, which resist the Canadian climate so well that they rarely break—Capt. Tyler, an authority of at least equal standing with Mr. Allport in the railway world, speaks of the efficiency of the Grand Trunk equipment and general arrangements. All this, we may depend upon it, will not pass unnoticed by other Canadian railway companies, which have had to struggle with difficulties at least equal to those against which the Grand Trunk has had to contend. The Great Western of Canada has already exhibited as great a partiality for steel rails as that shown by the Grand Trunk, and it is also beginning to experience the benefit of its steel rail efforts in reduced maintenance charges. It is clearly established, in fact, that in order to to experience the beneat of its steer ran entors in reduced maintenance charges. It is clearly established, in fact, that in order to be even moderately prosperous, Canadian railways must have steel rails, more population near their stations, and increased facilities for an interchange of traffic with American systems. All these advantages tages have been secured by the now reviving Grand Trunk.

#### FOREIGN MINES.

SIERRA BUTTES (Gold).—The result of the working at the Sierra attes and Plumas Eureka Mines for October:—Sierra Buttes: Receipts, \$30,445; st of mining and milling, \$20,863.—Plumas Eureka: Receipts, \$30,970; cost of ining and milling, \$13,566.

RIO TINTO.—Oct. 31: The removal of the overbarden increasing

SIERRA BUTTES (Gold).—The result of the working at the Sierra Buttes and Plumas Euroka Mines for October—Sierra Buttes i. Reccipits, \$39,407. cost of only much all removal to date and present services. Soly,607. cost of only much all removal to date is \$15,000 cube metres.—Tunnel at Mines: New machinery, McKean's patent, as in use in the St. Octhard Tunnel, inst at work—range in the St. Octhard Tunnel, inst at work—range, 1979. The present seal of the present se

FORTUNA.—Nov. 3: Canada Incosa: In the 110, west of Henty's shaft, we have intersected the lode west of cross cut; at present it is large, composed of spar and lead ore, worth ½ ton per fathom. There is no alteration since last report in the 80 cross cut, south of Henty's. The lode in the 50 west of San Pedro's, does not improve in value. In the 60, west of this shaft, the lode is very small, and ground disordered. The 60, east of the same shaft, is in a lode worth ½ ton per fathom; we have suspended it, and put the men to drive north to San Frederico's shaft. The lode in the 50, east of San Frederico's, is strong, composed of spar and lead ore, worth 1 ton per fathom. The 40, east of the same shaft, six juiled as los 1 ton per fathom. The lode in the 80, west of Kennedy's, is very much disordered; we anticipate an improvement here before long. The 90, west of Londre's shaft, is in a large, well-defined lode, opening out good stoping ground, worth 2 tons per fathom. The lode in the same level east yields ½ ton per fathom. In the 80, east of Segura's shaft, the lode is large, and produces 1½ ton per fathom. In Judd's shaft, below the 100, the ground is very hard for sinking. In San Frederico's shaft, below the 50, good progress is being made.

Los Salidos: In the 110, west of San Carlos shaft, the lode has fallen off in value, and the ground hard; present value ½ ton per fathom. The lode in the 10, east of 80, west of this shaft, is split into two branches, containing a little lead, but not enough to value. In the 120, east of Morris's engine-shaft, the lode is of a promising appearance, containing a part and a little lead ore. The lode in the 110, east of corapact, and worth 1 ton per fathom. The lode in the 160, east of 62 approves engine-shaft, has improved a little, and is now worth ½ ton per fathom. In the 45, east of this shaft, the lode is looking a little better than it has for some time past; value FORTUNA .- Nov. 3: Canada Incosa: In the 110, west of Henty's

y ton per fathom. The lode in the 25, west of Swaffield's shaft, has falten off in value, caused by a cross-joint traversing the same. In the 25, was to this shaft, the lode is small, and contains a little lead ore. Good progress is being made in Buenos Amigos engine shaft sinking below the 10. In Falgawa's engine-shaft below the 45, the lode yields 2 tons per vathom, but the ground is more troubles some for sinking. Swaffield's shaft, below the 35, continues to look well, and is worth 25 tons per fathom. In Londre's winze below the 10, east of Cox's, the lode produces tons per lathom, and has a promising appens a cc. Orive's winze per fathom. The lode in Mernio's winze below the 10, east of Cox's, the lode produces tons per fathom. In Ricard's winze below the 35, cast of Palgrave's, the lode in Mernio's winze below the 10, event of San Cine 4 tons per fathom. The lode in Mernio's winze below the 10 west of San Cine 4 tons of Palgrave's, the lode is very small, and ground hard for sinking.

\*\*ALAMILLOS.\*\*—Nov. 4: The 30, driving west of San Francisco's shaft, is in a lode containing stones of ore. The 50, west of this shaft, is in a large and strong lode, producing ½ to not lead ore per fathom. The ground in the 50, north of La Magdalena's shaft, is very hard. The lode in the 85, east of Taylor's engine-shaft, is very much improved, now worth 1½ to no per fathom. The lode in the 85, west from Jalian's winze, is worth 1½ to ne per fathom the lode in the 85, west from Jalian's winze, is worth 1½ ton per fathom and likely to improve. The 40, west from Jaqualn's winze, is worth 1½ ton per fathom, and likely to improve. The 40, west from Jaqualn's winze, is worth 1½ ton per fathom, and likely to improve. The 40, west from Jaqualn's winze, is worth 1½ ton per fathom, and likely to improve. The 40, west from Jaqualn's winze, is worth 1½ ton per fathom, and likely to improve. The 40, west from Jaqualn's winze, is worth 1½ ton per fathom and per jaqualn's winze is no improvement in the 30 to 10 tons per jaqualn's winze

[For remainder of Foreign Mines, see to-day's Supplement.]

SMELTING.—Mr. F. WIGG, chemical manufacturer, has patented some improvements in treating and preparing granular or finely divided ores for smelting. The invention consists in mixing the said ore or ore with tar, pitch, resin, or any of them, or of peat, and alkali forming the mixture into blocks or other shapes under pressure, and finally heating.

METALLIC CASES.—Mr. BRADLEY, Warwick, engineer (for General Berlan, of New York), has patented some improvements in solid flanged metallic cartridge cases. He says—"In manufacturing solid flanged metallic cartridge cases. I form a fillet or bevelled shoulder forward of the flunge, and at the junction of the flange with the shell, and in combin tition with the said fillet I form a circular groove or recess in the forward face of the flange. One side of the groove or recess in the bevelled face of the said fillet or shoulder, the other side of the groopes or sides an acute angle with the outer circumference of the flange. At the rear of the flange I form a bevelled shoulder an angle of not less than 45 from the axis of the shell, the outer diameter of which bevelled shoulder is about equal to the outer diameter of the case, and the inner diameter of the bevelled shoulder is somewhat less than the interior diameter of the case. I leave a flat surface around the cup chamber in order to give a good bearing surface for the head of the case against the face of the bolt. The rear surface of the face of the flange is about rectangular to the axis of the cartridge case."

METAL PIPING.—Mr. W. F. PITCHFORD, Of Belsize-square, Hamp-

s about rectangular to the axis of the cartridge case."

METAL PIPING.—Mr. W. F. PITCHFORD, of Belsize-square, Hampstead, his patented some improvements in appuratus for the manufacture of lead in, and other soft metal picing. In the manufacture of lead and tin piping it has seen usual to employ a bridge so constructed as to affect the required support to the core or madril, while permitting the metal to pass un terror over it to the die, according to the invention he so constructs the said bridge, and arrange the same in combination with the die, and he so forms the die listelf as to accomplish the operation of forcing the metal through the die with very little resistance beyond hat offered by the adhesiveness of the metal itself.

that offered by the adhesiveness of the metal itself.

ELECTRO-DEPOSITION OF NICKEL.—Messrs, BAKER and UNWIN, of Sheffield, have patented an invention which consists in the preparation and use of an improved solution of nickel for the purposes of the electro-deposition of that metal upon iron, copper, and other metallic and conducting surfaces. The improved solution is composed of nickel, oxide, and an alkali, such as soda, potash, or ammonia, or a mixture of two or all of these alkalies, and the whole dissolved in tartaric acid; and they use the resulting solution as a bath for the electro-deposition of metallic nickel, which will produce a reguline adhesive deposit. The foliowing are the proportions which are found convenient:—1 0 ths. sulphate of nickel; 53 lbs. tartaric acid; 14 lbs. caustic soda; or they take 100 lbs. of nickel; 67 lbs. cream of tartar.

LEAD AND LITHARGE. -Mr. W. BAKER, of Sheffield, has patented an invention for improvements in the manufacture of white-lead, and red-lead illiharge consisting in the employment of lead alloyed with a certain amount of zi such lead to be used for the making of red-lead, litharge, or cast, for corrosion in usual manner for its exposure to the action of carbonic acid, aqueous vapour, a acetic acid, according to the usual methods of making white-lead.

etic acid, according to the usual methods or making white lead.

ARTIFICIAL LEATHER.—By the invention of Mr. C. MURATORI, of Burton-crescent, any cotton, linen, or cloth fabric is immersed for four days in a bath of alum and muriate of sola dissolved in water. It is then dried and immersed for a few minutes in a second bath composed of waste glove leather dissolved in water. The fabric is then treated in the same manner as ordinary leather after tanning.

COAL TAR PRODUCTS.—Messers. Lowe and GILL, of Manchester, COAL TAR PRODUCTS.—Messers, LOWE and GILL, of Manchester, manufacturing chemists, have patented some improvements in the manufacture and separation of certain mixed coal tar products. The object of this invention is to effect and facilitate the separation of carbolic acid from the creaylilic and other liquid tar acids. The nature of this invention is (1) to submit the partially or wholly hydrated mixtures of tar acids above mentioned to the sufficiently prolonged action of temperatures varying between 15° F. and 56° F.; (2) to separate by suitable means the more or less hydrated carbolic acid crystals thus formed from the mother liquors containing the liquid tar acids and a residue of carbolic acid dissolved in them; (3) to effect complete purification of the more or less hydrated carbolic acid crystals thus obtained by re-crystallisation either by partial fusion or solution in water with subsequent refriguration; and (4) to prepare carbolic acid of high or complete degrees of parity by dehydrating the partially or wholly purified more or less hydrated carbolic acid crystals above mentioned,

PEAT.—Messers. W. RADEKE. of Gracechurch-street, and S. R.

Peat.—Messis. W. Radeke, of Gracechurch-street, and S. R.-Smyth, of Gresham-street, have patented some improvements in the manufacture of peat into fuel and charcoal, and in apparatus and appliances to be employed for such purposes, being partly also applicable to the carbonising of wood.—I. Peat is pulped by a powerful cone mill suitable for any motive-power.—2. In cast-iron vacuum tanks the pulped peat is freed of a large amount of its moisture by the action of a pump.—3. The peat is subsequently dried into a solid fuel in a short time by the renewed action of a pump, after having been deposited in an adjoining vacuum tank of similar construction.—4. Peat or wood is charred in retort stacks and condensed therein by the pressure of the gases evolved. Superior charcoal is thus produced and in large shapes.—5. The products evolved during charring are condensed, and valuable products are recovered.

BRICKS AND TILES.—Mr. JATKINSON of Great Lever, near Bolton.

BRICKS AND TILES .-- Mr. J. ATKINSON, of Great Lever, near Bolton, BRICK AND TILES.—Mr. J. ATKINSON, of Great Lever, near Bolton, has patented an invention the object of which is to render the surface of bricks and tiles impervious to atmospheric influences. "In performing my invention I prepare a solution of common soil and oxide of lead or other metal, combined with colouring matter if necessary: the solution so prepared is applied to the surface of the brick or tile when dried, but before being burnt."

From the Cape of Good Hope we learn that Mr. C. Sonnenberg has From the Cape of Good Hope we learn that Mr. C. Sonnenberg has written down from Transvaal to the firm of Sonnenberg and Hartog, to whom he has consigned four bags of very fine gold quartz from the reefs of the company; that the Australians have discovered a new rush already, and that they are turning out lots of gold. Mr. Solomon and Mr. Sonnenberg have purchased 120 lbs. of gold between them, and 1000 lbs. weight has been sent off to Natal. The Diamond News is informed that the quartz reefs of the Pilgrim's Rush Company are turning out splendidly, and altogether the prospects of the gold fields are looking up.

At the New Sombrero Phosphate Company meeting, on Tuesday, the director's report was adopted; it showed that the loss on the half-year -miding June 30 amounted to 2401, being at the rate of 4811, per annum, against 8511., the loss for the previous six months, or at the rate of 17021, per annum.

The Equitable Assurance Office has just paid a claim under a policy which must be one of the oldest in the world. The policy was taken out in December, 1705, for 10001; on a life then aged 13, at an annual premium of 184, 164., is has now become a claim, after existing for 79 years, and the sum paid is 79061, being nearly eight times the sum originally assured.

#### Notices to Correspondents.

\* Much inconvenience having arisen in consequence of several of the Number during the past year being out of print, we recommend that the Journal she'd be filed on receipt; it then forms an accumulating useful work of reference.

during the past year being out of print, we recommend that the Journal she lide during the past year being out of print, we recommend that the Journal she lide be filed on receipt; it then forms an accumulating useful work of reference.

Dynamite.—Can any correspondent inform me the price per pound, or per hundredweight, of dynamite and of lithofracteur respectively, and by what means they could be procured at a mine in Cornwall? Supposing it brought to the nearest shipping port, how could the necessary authority be obtained for carrying it over 8 miles of turnpike road? How many pounds of gunpowder is 1 b. of dynamite equal to? Can an end be entered as soon after a dynamite as after a gunpowder blast?—J. F.

Betam on Tramways—"K. D. V." (Leeds).—In the present state of the law the use of steam on tramways in the London streets is practically prohibited. Horses do not appear frightened in the slightest degree by the steam road-roller, though an engine could certainly be made more nearly noiseless. There have been several proposals for combining the engine with the tramear; indeed, we do not recollect one for using an independent engine, which would be awkward and inconvenient. The best arrangement is a small vertical boiler at the top and central of the ear, with the steam-pipe carried down the side of the car to a pair of horizontal cylinders beneath the ear, working a pair of central driving-wheel so small diameter, the exhaust steam being condensed beneath the car, and repumped as feed water. By this means the bogies are left perfectly free, and the car can turn in its own length if necessary. We do not recollect the name of the inventor, but believe the objection, or one of them, was that he occupied half of the roof space, otherwise available for passengers, with his machinery. There is the important objection to steam that two men are required, whilst one man drive a pair of horses. The conductor and money-taker could not be made either engine-driver or stoker, and to entrust one man with driving and stok

ment on these.—Rolling Stock.

Artificial Legs—"P. S." (Bangor).—The best artificial leg maker we know is Mr. Heather Bigg, A. I. E. C., 56, Wimpole-street, Cavendish-square. He has devoted a lifetime to the construction of artificial limbs, and we have seen some marvellous pieces of mechanism of his nake. Mr. Grossmith, 175, Fleet street; Mr. Stadox, 19, University-street; and Messac. Arnold and Sons, 56, West Smithfield, are also first rate anatomical machinists, and would probably be much cheaper than Mr. Bigg. Grossmith does chiefly in the better sorts of eyes, legs, and hands; Stump in noses; and Maddox and Arnold in general work.

MINERAL STATISTICS—"H. J." (Bodmin)—Wo. believe the contraction of the statement of the stat

MINERAL STATISTICS—"H. J." (Bodmin).—We believe the official statistics for 1873 will be issued in the course of a few weeks. No reports from the Inspectors os Metalliferous Mines have not yet been issued; as soon as they appear they will be noticed in the Journal.

Received.—"U. D. P."—"A Management of the state of

will be noticed in the Journal.

Received,—"R.R.,"—"A Member"—"W. J. J.; "The continuation of "Coal Mining
in Italy," next week—"E. C."—"One who Knows"—"Shareholder" (Lovell)—
"One Interested" ("West Chiverton)—"Y."—"F. C. K."—"Miner"—"Hopeful"
(Truro)—"D. E. M." (Georgetown, Col.); Very acceptable—"Shareholder"
(Llanarmon) had better apply at the office for information—"Miner" (Breage)
—"P. M." (Lecels)—"J. B." (San Francisco),

THE SUPPLEMENTARY SHEET.—We have received occasional complaints, and of late a good many, that the Journal is delivered by country booksellers without the Supplement. Subscribers would oblige us by demanding that the paper should be banded to them complete, as every Journal is accompanied by the Supplement when it leaves our office, and the fault of omission must rest with the country bookseller or their London agent.

#### THE MINING JOURNAL.

Railway and Commercial Gazette.

LONDON, NOVEMBER 14, 1874.

#### FOREIGN COMPETITION IN IRON AND STEEL.

FOREIGN COMPETITION IN LAON AND STEEL.

The most is invariably heard of this at a time when trade is slack. Such a time we are now experiencing, and in trying to account for it manufacturers are disposed to attach too much importance to the extent of the competition which we encounter from makers outside this country. Whilst we are unprepared to believe that the present slackness is greatly due to this cause we are, nevertheless, convinced that the progress which producers of iron and steel beyond our own shores are making should be carefully watched, so that the lessons which it is calculated to teach may be learnt before it is too late. Such views as these appear to influence Mr. Richard Johnson, president of the Manchester Chamber of Commerce, who, at a recent meeting of that body, brought the subject of foreign competition very president of the Manchester Chamber of Commerce, who, at a recent meeting of that body, brought the subject of foreign competition very prominently under the notice of the members. Mr. Johnson, in discussing the iron trade, pointed out that in the year 1869 we exported 2,608,618 tons, and in 1872 we exported 3,388,622 tons. This large increase, however, consists entirely of pig-iron. There is no increase whatever—on the contrary, there is a small decline—in our exports of manufactured iron. At the same time, there are large imports of manufactured iron from Germany, Belgium, and Sweden into England. Great quantities of pig-iron are annually sent from the Cleveland iron district to the Westphalian forges, there to be manufactured and returned to this country as finished iron. The following returns inform us of the progress of the manufacture of steel in France:—

In the year 1863 the total production was

1863 the total production was .. Let us see what advance Prussia has made in the manufacture of steel .... 40,160 ton .... 122,148 ,, .... 287,905 ,,

", 1872 500,000 ", Here is, undoubtedly, very great progress. Mr. Johnson says that it is unparalleled in any industry; and, to still more emphasise the subject, he informed the Chamber that during the past month his own firm had contracted with a Belgian house for the delivery in Manchester of wrought-iron girders at a price lower by 3l. per ton than they could be purchased from English manufacturers. The cause of what Mr. Johnson terms our "defects" is not, he believes, far to seek. Great Britain, he declares, is inferior to her neighbours in education both of meaters and of men and in exception between in education both of masters and of men, and in organisation of work. On all hands he hears of the more perfect organisation of foreign works, especially among the French, which enables them to produce a much larger quantity of finished articles than the English manufacturer is able to produce from the same machinery in the same time. This greater quantity, amounting in some branches of the iron trade to fully 50 per cent., which our foreign neighbours are able to produce, is more than a counterbalance to the greater price which they have to pay in comparison with ourselves for coal. It enables them also to meet the greater cost of transit from the works to the ship, and thus successfully to compete with their English rivals in foreign markets, having first driven them out of

No doubt the Creuzot Works are now and again successful in securing some orders that might, under different management at that place, reach this country. For instance, the most recent information as we last week showed, is that a specification for some 30,000 tons of steel rails for Russia has been obtained by the proprietors of that concern. It must not, however, be forgotten that prietors of that concern. It must not, however, be forgotten that in respect of finished iron there has been a considerable diminution in the make during the first six months of this year throughout France collectively. In the first six months of 1873, 464,410 cons of manufactured iron was produced in France; but in the first half of this year the quantity fell to 415,856 tons, showing a decrease of 48,554 tons. There can be no doubt that in every part of the world the demand for iron has in the next trade world for iron has in the next trade world. 48,554 tons. There can be no doubt that in every part of the world the demand for iron has in the past twelve months greatly fallen off; and that at such a time, and when the recent enormous demand and excessive prices had encouraged immense outlays in increasing productive capability wherever possible, the least competition must make itself felt. The largely augmented productive capability alike of Germany and of France will soon be more than sufficient to supply much of their own requirements, even when trade is mode-

supply much of their own requirements, even when made is most rately good.

Meanwhile, no ironmaster is surprised that just now we should have heard some little about foreign competition. Much of the improvement shown by the figures which are being quoted against this country is due to the rapid advance in the use of steel for railway purposes instead of iron. England saw what was coming on, and the great Barrow-in-Furness district quickly sprang into being. Germany is making an enormous effort, that she may be equally prepared to comply with the requirements of her own railway engineers, and in a time of slackness to compete also with us in foreign markets. How far this is traceable to the exceptional prices which the late large demand enabled steel makers to require need not be discussed. The facts admit of no doubt that in the producing of steel rails, in particular, Germany and France are at the present discussed. The facts admit of no doubt that in the producing of steel rails, in particular, Germany and France are at the present moment capable of elbowing this country somewhat uncomfortably. By-and-bye, however, things will have found their level. Certain of the iron rail mills that seem likely to be put off, both in Cleveland and in Wales, must be adapted to the manufacture of steel rails. The demand having revived, and the methods of production become less expensive, the British steel maker will give his competitor sufficient to do to hold his own at home. That the foreigner should be able to do this is not cheering to makers at home, who have sufficient to do to hold his own at home. That the foreigner should be able to do this is not cheering to makers at home, who have largely increased their means of production; but, as has been correctly pointed out, the Germans having discovered that they have an abundance of coal in Westphalia at one end and in Silesia in the other end of their empire, the rapid development of the production of Prussian steel should be accounted for. The more so, we repeat, as the Germans had the further encouragement of prices which, if English makers could get, they should not be expected to forego; but which must, nevertheless, infallibly provoke the Nemesis of larger production elsewhere. The position in which the English iron and steel master now finds himself is not one to call for lamentation, or for self-reproach. It is suggestive, and should "prick the sides of his intent" in matters alike economic and managerial. That it will have this effect we have no doubt, though we are far from it will have this effect we have no doubt, though we are far from admitting that the 50 per cent. increased output quoted by Mr. Johnson is other than very exceptional. But that it should have occurred in any instance whatever reveals that the President of the Manchester Chamber is right in holding that workmen have much to do if their masters are to bring to the iron and steel mills of this country the orders which both regard as necessary for their mutual

#### MINING, AND MINING DIVIDENDS.

During the height of the coal fever, in the early part of last year, when a mania had set in for the purchase of colliery property, and thousands of persons were desirous of investing in it without much thousands of persons were desirous of investing in it without much consideration, we pointed out the results that were likely to ensue from the recklessness then displayed. Collieries were purchased at truly fabulous prices, and many large as well as small concerns were sold at four or five times their actual value, so that large fortunes were made by many persons who in the first instance had little or nothing to lose. But no notice was taken of the warning we gave for persons appear to have come to the conclusion that the tunes were made by many persons who in the first instance had little or nothing to lose. But no notice was taken of the warning we gave, for persons appear to have come to the conclusion that the price of coal would never again come down to anything like what it was in the latter part of 1871, and that the charge in London from 38s, to 42s, per ton delivered would be stationary for a very long time. This we pointed out was not likely to be the case, and that the large profits then realised would be the means of creating a competition that could not fail to bring prices down. During the present year our views have been more than realised; and, although strikes in different places have aided in keeping up the cost of coal tolerably well, everyone at all acquainted with the trade knows that prices must come down considerably. That this must of necessity be the case we need only point to the fact that in every mining district in the kingdom new collieries are now being opened out, although at the present time our productive power is far in excess of our requirements. In Yorkshire alone, we were recently informed by Mr. Frank Wardell, one of Her Majesty's Inspectors of Mines, that has tyear he had received notice of upwards of 100 collieries about to be opened out, many of them being intended to turn out 1000 tons of coal daily. Such being the case, it is almost impossible for the most infatuated not to see that the time is fast approaching when the price of coal must come down to something like it was in the early part of 1872. The question will then be as to where dividends are to come from. Quite lately we have had meetings of companies where great dissatisfaction was expressed at the small amount of profit available for dividends, and for which various reasons were assigned—all, in fact, but the real ones. Instead of beating about the bush, the truth might as well be told in a few words, that too assigned—all, in fact, but the real ones. Instead of beating about the bush, the truth might as well be told in a few words, that too much money was paid to the vendors in the first instance—so much so that the present profits would not admit of anything like a 10 or 15 per cent. dividend, although last year, when coal was some 6s. or 8s. per ton higher than it now is, even more could have been realised. 15 per cent. dividend, although last year, when coal was some 6s. or 8s. per ton higher than it now is, even more could have been realised. Now, however, when coal is much dearer than it is likely to be, many collieries are unable to pay a fair percentage on the money invested in such risky property. In one instance we hear of the yearly dividend being only 5 per cent., where more than 20 per cent was held out as the allurement to investors. In another case the Chairman of a company in South Yorkshire informed us recently that he did not intend to call a meeting at all for the half year, seeing that there were no profits to pay any dividend whatever. This, in a great measure, he admitted was the result of purchasing a colliery at considerably more than its actual worth. But these are by no means isolated cases, for our own knowledge alone extends to a great many more. Indeed, instances might be given where collieries that a couple of years ago were in a state of insolvency have been sold for large sums, so that the owners have been able to retire with handsome competencies. A small place we recollect where the whole plant and everything else was valued at less than 3000%, was floated for 30,00%. Of course, no dividend as yet has been paid from profits. Vendors, however, have done remarkably well, for we recollect that a colliery which was purchased for rather less than 40,00%. Was sold exactly 12 months after for over 200,00%. Solong as coal continued at the prices of last year the profits were such that a fair dividend might even be paid on such a large sum of money, but with a reduction in the price equal to from 25 to 35 per cent., then difficulties commenced.

One of the great difficulties to persons desirous of investing in

cent, then difficulties commenced.

One of the great difficulties to persons desirous of investing in mining property is their being unable to ascertain for themselves anything like the actual value of the property offered for sale, so that they are obliged to be guided by the reports of experts, that are not always reliable. Still a datum line might be fixed, by which the unprinted in the property of the control of control of control of the unprinting of the property of the control of the contro are not always reliable. Still a datum line might be fixed, by which the uninitiated in the mystery of the coal trade and the value of coal mines might be enlightened. The way one would be struck is whilst considering the relative value of the two collieries in Yorkshire—the Oaks, which with a production of from 1200 to 1400 tons a-day, was sold for 240,000%, and another, which with a daily output of 700 tons, was disposed of for something like 300,000%. If we put of 700 tons, was disposed of for something like 300,000*l*. If we take the production of the Oaks, with its two drawing-shafts, at the daily average of 1200 tons, that would make the purchase-money rather less than 13s. per ton for the entire output of one year of 52 weeks. The problem can be easily worked out, but it may be said that coal varies in quality and value. Admittedly it does, but said that coal varies in quality and value. Admittedly it does, but at the Oaks the seam is nearly 9 ft. thick, and combines both steam and house coal of a superior description, whilst the area of the field is a very large one. But in arriving at the probable value of a colliery the thickness of the seam must not be overlooked, for it costs a great deal more to work a thin than a thick bed of coal. However, although our mode of realising the value of a colliery, as in the case of the Oaks, may be said to be a novel one—as it truly is—yet it will be admitted to be a simple mode by which investors may be able to arrive at a safe conclusion as to the value of mining property which may be offered to them. If acted upon it may be the means of benefiting both sellers and buyers, and avoiding misunderstandings and charges of decembing of which we have heard as much of late. It may also tend to the true cause for any decline in dividends being ascertained without difficulty, instead of assigning reasons entirely foreign to the facts. Only recently the Monkwood

Colliery, in Derbyshire, the property of a co-operative association of working men, not turning out so good as was expected the Chairman asserted it was the miners' fault. By them it was retorted that these were other causes for the unfortunate results. Gold can be purchased at too high a price, and so can coal. Still colliery property is a safe and good investment when bought at a fair price, and our object in noticing the question of dividends and the price of coal mines has not been to find fault, but to show how great has been the change in the trade, and how a fair estimate of the value of mining property may be ascertained.

#### RAILWAY PROGRESS IN THE AUSTRALIAS.

RAILWAY PROGRESS IN THE AUSTRALIAS.

The most recent advices from the Australian group of colonies—
a group which appears to be growing in population, wealth, and
importance with remarkable rapidity—indicates more strongly than
ever the resolute determination of the Australians to have efficient
railway communication, and that with as little delay as possible.
Thus, from Queensland we learn that considerable progress has been
made with the construction of the Ipswich and Brisbane line, the
rails being now laid for some distance. It was expected, indeed,
in September that the line would be partially opened for traffic
before many weeks had elapsed. As regards South Australia, a resolution has been carried in the Legislative Council of that colony
calling upon the Ministry to bring in a bill this session for the construction of a line to the Murray. The Colonial Government has
been pressing on the surveys of several alternative lines, and a promise has been given that these surveys shall be promptly completed.
When the surveyors have indicated the results of their labours the
Colonial Government will probably introduce a bill providing for
the construction of an iron road, over that which may be deemed the
best route. If we pass on next to the splendid colony of Victoria,
we find that the first section of the Ballarat and Ararat line—from
Ballarat to Beaufort, a distance of 28½ miles—has been opened for
general traffic. The opening of this section increases the length of
Colonial Government lines in operation in Victoria to 514 miles.
We have referred to lines in progress or in projection in Queensland,
in South Australia. and in Victoria; and similar details might be

Ballarat to Beaufort, a distance of 25 miles—has been opened for general traffic. The opening of this section increases the length of Colonial Government lines in operation in Victoria to 514 miles. We have referred to lines in progress or in projection in Queensland, in South Australia, and in Victoria; and similar details might be added with regard to extensions undertaken in New South Wales and New Zealand. Tasmania has a main line on hand between the important towns of Hobarton and Launceston; and even Western Australia—hitherto regarded as an almost hopelessly remote convictainted settlement—is dreaming of railways, and means to have them. Our exports of railway iron to the Australias have been proceeding this year at quite a railway pace, having attained a total to Sept. 30 of 61,487 tons, as compared with 17,219 tons in the corresponding period of 1872. This result is due to the remarkably good credit which the various Australian Governments—and it is the Colonial Governments which undertake railways at the Antipodes—have been building up of late years. In 1869—a short half decade since—New Zealand Government debentures might be purchased to yield investors 5½ per cent. per annum, but now the credit of New Zealand has become so strong that similar investments would not yield a returned more than 4½ per cent. per annum. A similar comparison applied to other Australian Government stocks affords very analogous results. Victoria, Queensland, New South Wales, and South Australia can all now raise money at somewhere about 4½ per cent. per annum; and even Western Australiah has negociated a loan of 100,000.—and negociated it, too, in Melbourne—at the relatively modente interest of 5 per cent. per annum. Then, the population of the Australian settlements is, at last, beginning to expand in earnest. Almost all the Australian colonies have now emigration agents actively at work for them in Great Britain and in Europe, so that the resources of our Antipodean territories will in all probability be developed to a ver sustain the burthen of their loans when they have been negociate All these considerations tell in favour of a sustained prosecution. Australian railways, and, of course, if the work of Australian railways, and, of course, if the work of Australian way construction continues to go bravely on there is a good chancof our finding the Australians good further customers for our mix way iron. We do not anticipate much competition on the part of the part Australian ironmasters or Australian iron companies for some tie to come. Metallurgical industry is only a product of an advance and ripe civilisation to which the Australian settlements are no likely all at once to attain.

COPPER MINING, AND ITS PROSPECTS.—The present position of the copper trade has been characterised as singular, because the movements in the prices of ore have not during the current year followed so closely as usual the price of metallic copper, but the arguments put forward and the conclusions drawn are alike fallecious, being based upon by far too superficial a review of the subject. In the Times City Article of yesterday it is stated that—
"In common with most other things, the tendency of prices in manufactors are alike fallecious, being based upon by far too superficial a review of the subject. In the Times City Article of yesterday it is stated that—
"In common with most other things, the tendency of prices in manufactors between the prices of the subject COPPER MINING, AND ITS PROSPECTS,-The present position of

Now, in January, 1872, with tough cake copper at 71*l*, per ton the smelters were paying 12s. 2d. per unit for 7½ produce ore, which does not differ widely from the October price of 13s. 8d. per unit for produce, with tough cake at 90*l*, per ton. It should be remember that to obtain 1 ton of metallic copper 13 tons of 7½ produce ore required, and that each ton of ore requires several tons of coal convert it into marketable metal. The difference in the price of coal now and in January last would much more than account to the discrepancy in the relative prices of ore and of copper. Calbeing now at its normal price, or nearly so, the relative prices of the discrepancy in the ore is also at about the normal rate.

PRIZE FOR THE PREVENTION OF COLLIERY ACCIDENTS—
one in Belgium has the merit of inventing a new Monthyon
Fatal accidents happen in coal mines: the Belgians are anxious to
vent them: someone has accordingly announced that the conlon
in whose mines the fewest workmen shall have been killed by
plosions betw on this and 1883 shall receive a reward of 400,
my be hoped that the money gift will be combined with a me
or a bit of ribbon, or something else that appeals to the sentimen
honour and of glory, for without this the colliery proprietor
hardly consider that he has had an adequate return for the
vigilance of the decennial period. The notion that the hope of a
level young found in the fear of losing, perhaps, ten times the sun
one year shows that some persons in Belgium are as innocent as
can hope to see any of our fallen race. Things will, however, or
as before in spite of the offered prize—that is to say, coalowers
probably find in their own interests as business men a sufficient
monetary inducement to the raising of the maximum of coal at
minimum of cost by explosions. It is to be hoped that they
not turn this hency along the search of the maximum of coal at
more than the provident scheme against its authors by quoting the PRIZE FOR THE PREVENTION OF COLLIERY ACCIDENTS.

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princip Mining is inten twice as ment might issue a decoration for the miners who had survived the term—all those who had lost their lives by explosions to be strictly forbidden to wear it.

COAL IN THE UNITED STATES.—The Penn Gas Coal Company has been engaged during the past year in constructing a railway from Irwin to the mouth of the Sewickley, within a mile of the Youghiogheny river, a distance of seven miles. The company is opening out large coal works at the Marchand farm, and at the Youghiogheny end of the road. A new coal road building by the Lehigh Valley Railroad, leading from Easton, Pennsylvania, to Perth Amboy, New Jersey, is progressing rapidly. A large force of men is at work on coal docks and trestles at Perth Amboy. The coal trestle and storage dock will be 2000 ft. long by 200 ft. wide, and will be 25 ft. above the storage floor. The aggregate coal movement of Pennsylvania to Oct. 10 this year amounted to 14,465,587 tons, against 15,791,291 tons in the corresponding period of 1873, showing a decrease this year of 1,225,704 tons. On the other hand, the bituminous coal movement of Pennsylvania to October 10 this year amounted to 2,605,598 tons, against 2,539,940 tons in the corresponding period of 1873. COAL IN THE UNITED STATES .- The Penn Gas Coal Company has

GREAT LAXEY MINING COMPANY.—The assertions of writers which reflect upon the fairness and integrity of their late employers, and those connected with them, are seldom worthy of much consideration, yet from the, perhaps too prevalent, feeling that the weaker parties ought to have an opportunity of vindicating themselves, there is always a disposition to allow persons in the position mentioned more latitude than they are justly entitled to. In some instances the liberty given is abused; and we much regret to find that this has been the case in Capt. Polglase's letter of Sept. 22, commenting upon the Great Laxey Mine, and its management. The entire absence of unbiassed feeling observable in every phrase and paragraph of his letter, and the fact of objectionable insinuations being substituted for intelligible statements, are productive, no doubt, of excessive annoyance to those against whom they are directed, and, more especially so, as to reply to them and demonstrate their falsehood would be more gratifying to the writer than useful to the gentlemen attacked; yet with regard to Capt. Polglase's letter complained of, it will be acknowlenged by all to be of much too violent and personal a character to inflict real injury upon anyone, unless, indeed, it be the writer himself. We much regret that such a communication, although reprinted from a contemporary, should have found a place in the columns of the Journal, for, although we can tolerate strong statements made in the heat of excitement, there is a limit which we are sorry to find. Capt GREAT LAXEY MINING COMPANY.—The assertions of writers in the columns of the Journal, for, although we can tolerate strong statements made in the heat of excitement, there is a limit which should always be observed, but which, we are sorry to find, Capt. Polglase has very far exceeded in his reflective remarks on Mr. Jos. D. Rogers, the able secretary of the Great Laxey Mining Company, whose services, we are glad to find, are well appreciated by those who are most likely to know their value.

RAPID MINING.—As it is constantly stated that "time is money in mining," it will be interesting to learn what great rapidity can be attained with machine-drills and dynamite. At the St. Gothard Tunnel, where, as stated in the description published a few weeks since in the Mining Journal, they are in solid granite, the heading was driven during the month of October 188 metres, or, including all delays and stoppages, more than 6 metres a day. It will be remembered that the advance heading is 8 ft. wide and 8 ft. high; yet in 31 days 104 fms. forward progress has been made, or over 3 fms 2 ft. per day. To attain this average the progress upon some days was really astounding, and appears fully to justify the prediction made that when the new McKean drills are in full operation 10 metres (5\frac{1}{2}\frac{1 RAPID MINING .- As it is constantly stated that "time is money of commercial enterprises.

COAL-CUTTING MACHINERY.—Satisfactory progress is being made with the introduction of Rothery's coal-cutting machine at the Waterloo Main Colliery, near Leeds. He will have one at work there, by power, in the course of a fortnight or three weeks. The principle is exactly similar to that for some time deposited at the Mining Journal office for the inspection of those interested, but it is intended to cut a 1½-in. groove, and it is estimated that it will do twice as much work as any other machine consuming an equal quantity of power. The results will be duly reported as soon as possible.

#### REPORT FROM CORNWALL.

Nov. 12.-So confident were the anticipations entertained in the by better prices for tin, that when Monday passed and standards remained as they were there was a very general feeling of disappointment. This feeling, however, cannot be said to have had any depressing effect. The rise had been looked for, and it did not come, but then it was felt that the fulfilment of the anticipation was only a question of time and was very too need to waiting not to be able aquestion of time, and we were too used to waiting not to be able

to wait a little longer.

Contrary to expectation, the local mine meetings of the present week have passed off quietly. At South Frances the attempt to transfer the management to London ended in a complete fiasco. transfer the management to London ended in a complete misco. Mr. Laws found that he was not strong enough to carry his point, and so very wisely withdrew. There cannot, we think, be a doubt that in this he acted with discretion. Defeat was certain, and to press the motion under such circumstances would only have been to arouse ill-feeling. East Pool meeting was a little noisy, but passed off much better than could have been anticipated. No doubt this was in no small measure due to the fact that there was such a passed off much better than could have been anticipated. And doubt this was in no small measure due to the fact that there was such a handsome profit shown on the two months' working. It was admitted that substantially the allegations of Mr. Rule were correct, and that the concern is mitted that substantially the allegations of Mr. Rule were correct, and that the mine was very seriously in debt. But the concern is healthy, and will soon recover the present depression. It was only just to Mr. Rule to pass him a vote of thanks, for he has rendered good service by clearing up the condition of the mine. It is evident that there have been several faults in the management, errors committed doubtless with the best intentions, but errors still. We cannot helieve it was at all fair to throw so much blame upon Cant. cannot believe it was at all fair to throw so much blame upon Capt. Garby. Everybody knows that he was not in every respect his own master; so that the responsibility of declaring the last dividend, which it is now clearly seen never ought to have been declared, must certainly be shared by the committee. However, "all's well that ends well," and East Pool has now a fair start again. The good sense of the gentlemen who were engaged in the contest for the pursership at West Seton resulted, too, in that meeting going off very quietly, with the result which we predicted—the election of Mr. T. Pryor. Mr. Pike and Mr. Pryor submitted their "hands" to Mr. P. P. Smith, on the understanding that the one of the two who was found to have the smallest amount of support should retire. In compliance with that arrangement Mr. Pike, having less support than Mr. Pryor, withdrew, and the latter gentleman was elected unanimously. A contest would have been specially awkward between two such excellent men. The only show of opposition was a suggestion by a shareholder that another gentleman should be selected, apparently on the sole ground that he had lost several hundred pounds in the mine, though how that would prove his fitness for a purscrabip it is hard to see. Another result of the meeting was that Capt. Josiah Thomas definitely accepted the position of manager. West Seton is poor now, though looking up a little bit, but there is a large quantity of unexplored ground, which it is hoped may replace it in its former position. There appears to be a kind of dismissal epidemic onwards, and if matters go on as they now are it will by and-bye be the regular part of the business of a mine meeting to dismiss the managers. The events at South Condurrow, following so closely upon those at West Chiverton, have caused a good deal of public, they do not appear to afford any sufficient explanation for the course adopted. Clearly, however, if that committee and materests of the mine was that they should part; and this may be so. We question, cannot believe it was at all fair to throw so much blame upon Capt. Garby. Everybody knows that he was not in every respect his own

is anything to be gained by the dismissal of the Messrs. Vivian. They know the mine, and they know how to work it; and it has now been brought up again to a position which indicates good prospects in the future. Quite irrespective of all considerations of Chiverton or Condurrow, it seems to us that outside shareholders need to be warned against the desire for change that appears to have come over so many of them. Except in a case of flagrant dishonesty, or incompetency, there is little to be gained by dismissals of this kind; and of all men in the world outside shareholders—who never, perhaps, saw a mine in their lives—are least able to decide when the best time to make such change is, and are the most liable to be led away by the tale of someone who has his own object to serve. Independent competent advice can always be had; and assuming that a fair proportion of the shares in a concern are held in the county, Londoners, or Scotchmen either, need not fancy that the Cornishmen—who do know something about mining after all—are quite such fools as not to keep a sharp look out after their own interests, which they cannot, of course, separate from that of their brother shareholders elsewhere. The first thing, is to be satisfied that the concern is bona fide; the next, not to be led away by every idle or misleading rumour. The Court of Queen's Bench have decided that the Liskeard Board of Guardians were right when they rated the mines in their Union on the surface buildings. &c. The decision is of very little con-

fide: the next, not to be led away by every idle or misleading rumour. The Court of Queen's Bench have decided that the Liskeard Board of Guardians were right when they rated the mines in their Union on the surface buildings, &c. The decision is of very little consequence now, seeing that the Rating Act of the last session has entirely—so far as our tin, copper, and lead mines are concerned—superseded the old law. Had it been given twelve months since, possibly the agreement which had been arrived at after so much deliberation, that the mine should be rated on the basis of dues, might have been reopened and more controversy have arisen. Had no provision been made in the new Act against the effect of such a possible interpretation of the law, the mines might have been exposed to double rating. Now, however, neither of these contingencies can happen. The Rating Act provides that the gross value of a mine shall be the amount of dues or rent payable; and it provides, moreover, that by a mine shall be understood not only the underground workings, but all buildings and land at surface occupied and used for the purposes of the mine. The decision of the Court is thus entirely restrospective, and retrospective only as it affects the assessment actually made before the Rating Act was passed—those of the Liskeard Union which have so long been under appeal. How the decision now given can be reconciled with the decisions given in former cases we confess we are not lawyers enough to decide.

#### REPORT FROM MONMOUTH AND SOUTH WALES.

REPORT FROM MONMOUTH AND SOUTH WALES.

Nov. 12.—Instead of improvement increased depression is to be recorded in connection with the Iron Trade. Orders are coming in more slowly than ever, and it is with great difficulty that any work at all is found for the men. There is, in fact, little inducement for makers to seek orders, as the quotations current are quite unremunerative, although rail iron has been sold at 1l. lower than at present prices, but the cost of manufacture was then very much less than it is now. The total quantity of iron sent to the foreign markets last month was only 20,683 tons, which was little more than half the usual quantity. Of that quantity Cardiff cleared 10,671 tons; Newport, 7778 tons; and Swansea, 2234 tons. The current month is not likely to show any appreciable improvement.

The masters are undoubtedly determined to carry on the 10 per cent. reduction which has been spoken of, and dull as times are it is to be apprehended that there will be a renewed struggle between capital and labour. The men contend that the masters are throwing all the distress of the trade upon them, and there appears to be a strong feeling to resist the contemplated reduction. If they follow this course there is little doubt that the result will be a general stoppage of the iron-making establishments, as under the circumstates in the contemplate of the iron-making establishments, as under the circumstates.

scoppage of the iron-making establibments, as under the circum-stances ironmasters care but little whether they keep their works going or not. The prospects of the Tin-Plate Trade seem to be im-

going or not. The prospects of the Tin-Plate Trade seem to be improving slightly.

The Coal Trade continues brisk, but there is a slight falling off as compared with the last week. The demand on foreign account as compared with the last week. The demand on foreign account is still good, but for home purposes the enquiry is quieter. On the whole, the exports last month were larger than any record in the annals in the history of the district before. They were as annexed:—Cardiff, 306,908 tons, as against 235,141 tons in the corresponding months of last year; Newport, 36,832 tons, against 31,155 tons; Swansea, 46,372 tons, against 49,749 tons; Llanelly, 6097 tons, against 7839 tons. The shipments coastwise were as follows:—Cardiff, 77,550 tons, against 88,417 tons in October last year; Newport, 57,762 tons, against 78,635 tons; Swansea, 26,723 tons, against 25,899 tons; Llanelly, 12,948 tons, against 11,298 tons.

The agitation continues amongst the colliers in regard to the new contract rules, and resolutions are still being passed denouncing

contract rules, and resolutions are still being passed denouncing them as tyrannical, and that if the masters persist in enforcing them they will resist them, but they wish to meet the masters first to see

they will resist them, out they wish to meet the masters first ose if any understanding can be come to.

During the present enquiry for coal, colliers and colliery managers have good opportunities of testing the capacity of the pits. A few days ago the manager of the Forchaman Colliery, in the Aberdare district, assented to the men seeing what quantity of coal they could put out in one day, and the result was extraordinary. In less than ten bours over one thousand tons were cut and raised by a than ten hours over one thousand tons were cut and raised by a

single shaft.

The Rock vein has been struck at the London and South Wales Coal Company's colliery at Risca, after about 18 months sinking.

#### REPORT FROM SCOTLAND.

Nov. 11.—On Wednesday last the warrant market opened flat, and business was done at 84s., but before the close on that day the tone became firmer, and as high as 85s. was paid. Since then the market has been steady, the prices fluctuating between 85s. and 86s., closing to-day at the latter price.

The price of warrants is now, relatively, somewhat higher than related in the price of warrants.

maker's iron, and in consequence a trifling increase has taken place in the stock in store.

£10 0 Nail rods ..... SHIPMENTS Week ending Nov. 8, 1873 Week ending Nov. 7, 1874 Decrease Total decrease since Dec. 25, 1873
Imports of Middlesborough pig-iron into Grangemouth:—
For the week ending Nov. 7, 1874
For the week ending Nov. 8, 1873. Increas

makers are scrambling for the pickings offered. Prices are easy, with limited prospects. on account of the dispute with the ship-builders and their men for an increase in the hours of labour, and a reduction in the wages now paid.

The prices of household coals are a little higher this week for best

reduction in the wages low plant. The prices of household coals are a little higher this week for best descriptions, with a fully better demand, but shipping and steam qualities are easier, with the decrease in the steamship traffic. The shipments for the week look large, being 55,253 tons, against 26,786 tons in the same week last year, but the former sum includes about 20,000 tons from the port of Ayr not included in the latter. In the East Coast ports the coal trade has also improved, and full prices are being paid, but the men are restless, and are shifting from place to place in quest of full time and higher rates of pay. Inseen place to place in quest of full time and higher rates of pay. In the other districts miners are aiming at an advance, which the present state of commerce will not justify.

The Philosophical Society of Glasgow have enlarged their basis by adding a new section, which is to embrace physics, mechanics, and

engineering.

At a meeting of the Local Natural History Society, on Monday, Mr. James S. Dixon exhibited specimens of alum shale in its native and also its decomposed form, and described the position it occupies in the coal formation, and the manner in which it is converted into the plum of compares. the alum of commerce.

THE BLOCHAIRN MALLEABLE IRON COMPANY, GLASGOW.—This unfortunate concern, which has come to so unhappy an end, was established in June, 1873, and was guaranteed to pay its shareholders 10 per cent. for five years. During the first 11 months of its existence the loss amounted to 135,000l., so that, instead of a dividend being declared, in conformity with the promises of its vendors, notice was sent to the shareholders that the company had suspended, and calls were demanded on the shares taken. The original proprietors of these works were Messrs. Hannay. The properties consisting of the Blochairn Ironworks and Collieries have been valued, says the prospectus, "under our own instructions," at 301,000l., and "stocks and working capital at about 200,000l." so to purchase and work the business it appears from this that 501,000l. was required; but, that there should be sufficient to pay the vendors and carry on the business, the directors propose to raise a capital of 600,000l., in 12,000 (50l.) shares The flattering statements of the prospectus, and the bait of a guaranteed interest of 10 per cent. for five years, induced some 210 outsiders to take shares in the concern; but' this, instead of raising the necessary capital, only brought (say) 400,000l., or less than two-thirds of the advertised amount. Out of this sum the vendors received 301,000l. for the properties as valued, and 12,822l. additional for the interest on bills and extra capital expended between the date of valuation and transfer. Deduct these sums from 399,750l., and there was only 85,928l. left for working capital and stocks, in stead of 200,000l., the sum estimated as necessary in the prospectus. Out of this 85,928l, the directors paid the vendors 63,458l, for stocks on hand, leaving only 22,470l. for working capital. In this condition the directors proceeded with the working of the concern, to find at the end of 10 months that they had lost fully 124,000l., or more than half the working capital estimated as necessary in the prospectus. Consequently, THE BLOCHAIRN MALLEABLE IRON COMPANY, GLASGOW .- This find at the end of 10 months that they had lost fully 124,000l., or more than half the working capital estimated as necessary in the prospectus. Consequently, at the end of March, 1874, the company stopped, and "the directors were appointed the liquidators." At this arrangement the deluded shareholders are indignant, and they are surely justified in insisting on liquidation by persons entirely independent of the original directorate. At present a veil rests on the whole proceedings of the company, which must be drawn asunder, and the unfortunate facts revealed. Since the suspension two of the Messrs, Hannay have been laid in their graves—the father and eldest son—but they had their coadiutors, who should not be permitted to son—but they had their coadjutors, who should not be permitted to escape by assuming the disguise of liquidators.

#### THE SCOTCH MINING SHARE MARKET-WEEKLY REPORT AND LIST OF PRICES.

REPORT AND LIST OF PRICES.

During the past week the amount of business done has increased, but still the business doing is only moderate. Coal and iron shares were at one time very weak, but have recovered, and are a trifle firmer, although the closing prices are generally lower than those of last week. Copper shares have continued in very good demand, and although the tone is now beginning to look a little dull the closing prices are all higher than those of last week. In other descriptions the market has been quite neglected, and business almost at a standstill. London and Glasgow Engineering and Iron Shipbuilding shares, however, show some signs of recovering the recent depression at 21 to 24. Notwithstanding the recent discovery of a good lode, Dunsley Wheal Phœnix shares have declined to §, §, showing the disinclination of the investing public to buy mining shares, even when they can be had at cheap prices and favourable shares, even when they can be had at cheap prices and favourable circumstances. Islay Lead shares are also lower at 3s. 9d. to 8s. 9d. A detailed list of the several days' business follows:—

circumstances. Islay Lead shares are also lower at 3s. 9d. to 8s., 9d. A detailed list of the several days' business follows:—

On Thursday last a good business was done, and prices mostly improved. Benhar done at 14%, closing 14% to 14½; Bolckow Vanghan "A" firm at 55 to 55½; Dunsley Wheal Phenix lower at ½; Emma done at 25%, closing 24s. to 25s.; Glasgow Caradon improved, being done at 31s. 6d. to 32s., closing 31s. 6d. to 32s. 6d.; Port Washington done at 81s., closing 80s. to 81s.; Javali firm at 4s. 6d. to 32s. Marbella done at 55%, closing irm at 5% to 51 118ths; Merry and Cuninghame were again lower, being done at 11s., 70s. 6d., and 70s., closing about 70s. 6d.; Monkland ordinary done at 92s. 6d., closing 92s. to 93s.; Nildrie done at 52s. A small lot of 8hotts Iron new shares changed hands at 6; Tharsis were largely dealt in, and after advancing to 26%, close 26½ to 25%, or a rise of y for the day; New shares were done at 17 11-16ths, closing 17% to 17½; Soctish Wagon shares 12 to 12½; Yorke Peninsula ordinary keep firm at 8s. 9d. to 11s. 3d.

On Friday a good business was again done, but prices were in most cases reduced. Caradon and Marbella improved. Benhar done at 14¼ and 14½, closing 14½ to 14½. Cwm Lery offered at ½, buyers nominally at ½, Canadian Copper Pyrites unchanged, at 50s. to 52s. Dunsley Wheal Phenix, ½ to 5½. Ebbw done at 22½, closing 23½ to 22½. Emma, 24s. to 25s. Glasgow Caradon again in demand, done at 32s. 6d. and 33s., closing 33s. to 33s. 6d. Port Washington done at 80s., closing 14at at 75s. to 79s.; notwithstanding this the all-paid shares advanced ½, being done at 6½. Gunnislake (Clitters), 1½, to 1½. Javali steady, at 4s. 6d. to 5s. Marbella were good, opened at 5%, but advanced to 114s., closing 114s. to 5½. Merry and Cuninghame done at 71s. and 70s., closing better at 70s. 6d. to 71s. Monkland ordinary lower, at 92s. to 92s. 6d., Niddrie, 15ts. to 53s. Amoa and Cleland firmer at 62s. to 6ts. Shotts Iron new were again done at 61s. 15ts. 50 59s. Herry and Cuninghame done at

ffin firmer at 5 1-16th to 5 3 löth. Scottish Wagon unchanged, at 12 to 12½. West Maria and Fortescue flat, at ½ to ½. Yorke Peninsula ordinary unchanged at 8s, 9d, to 11s, 3d.

On Saturday a good business was done, and prices improved. Benhar, 14 to 14½. Ebbw shares done at 22½, closing 22½ to 22½. Emma shares done at 23s, closing 24s, to 24s, 6d. Glasgow Caradon shares done at 32s, 6d. and 33s, closing 33s, to 3s, 6d.; the next sale is computed to be 242 tons of good quality ore on the 19th inst. Port Washington shares still flat at 75s, to 76s. Islay lead shares firmer on the result of the meeting becoming more generally known, but still offered at 5½, buyers at ½. Javali, 4s, 6d. to 5s. Marbella good, done at 5½ to 5½, closing 5½ to 5½. Merry and Cuninghame firmer at 70s, 6d. to 71s. Niddrie, 51s, to 53s. Omoa and Cleland done at 63s., closing 62s, 6d. to 63s. 6d. Tharsis done at 25½ and 25 11-16ths, closing 255½ to 25 11-16ths. New shares done at 17½, closing easier at 17½ to 17½. Uphall Oil shares were offered at 8, being a reduction of 12. per share. Young's Parallin shares again firmer at 5½ to 3½ Scottish Wagon shares, 12 to 12½, and Scottish Australian firm at 1½ to 1½. It is announced that the sales for the month of August amounted to 11,597 tons.

On Monday a moderate business was done; prices were generally steady. Benhar, 14½ to 14½; Canadian Copper Pyrites done at 52s., closing at 52s. to 53s. Cape Copper improved to 28, 29. Colorado Territe also were better at 3½ to 3½. Dunsley Wheal Phenix lower, at ¾ to ½. Ebbw shares done at 23½, closing 32 to 22½. Glasgow Caradon done at 33s. and 32s., closing 32 to 22½. Glasgow Caradon done at 35s. and 32s., closing 52 to 22½ dosing about these prices. New shares, 175½ to 17½, closing at these prices. Monkland ordinary, 92s. to 93s. Niddrie done at 52s. dosing 53s to 63s, and 63s, closing firm at 32s. 6d. to 71s., closing at these prices unchanged, at 12 to 12½. London and Glasgow Engineering were wanted at last quotation—21, but sellers at 24 held for a ri

6, 7; South Carn Breas have been moderately dealt in st from 30s., 32s. 6d., to 33s. 6d., 35s., at which they close. In Tincrofts a good business has been done at 30, 31; West Bassets firmer at 8½, 8½. In West Frances there a good enquiry for shares at 9½, 10; West Tolgus lower and weaker, 73, 75; Kitty Gls. Agnes), 6; Wheal Uny firm, 3½, 3½; Wheal Peevors after their great rise have declined to 5½, 6; Unity Wood, 2s. 6d., 5s.; Botallack, 45, 50.—West Briton.

CHAPEL HOUSE.—Another dividend at the rate of 15 per cent becomes payable on Monday next. We understand that the output of coal has been much increased during the past fortnight, and that prices on the Liverpool coal market are rising, with a brisk business. The new pits are being sunk rapidly and steadily, and everything is reported to be going on in a most satisfactory way.

SOUTH CONDURBOW.—We learn that consents to a special general ecting have been received from nearly 3000 shares to restore Messrs. Vivian to e post of managers. The shareholders will do well to support the efforts of Mr. artlett, and not be induced to deviate upon any counter statements.

NEW GELLIVARA.—Recently this company has confined its opera NEW GELLIVARA.—Recently this company has commerciae operations to the timber business, and has not worked the large deposits of iron owhich exist on the property. In February last, however, one of the furnaces we shown in, and in six months working 300 tons of pig-iron were produced, of while to tons are now on their way to this country, whilst the remainder will be mainto bars at the company's works. The ore treated was chiefly purchased in the south, but a portion of it was brought down from the Gellivara Mountains by the Laps or reindeer, and it is from this latter real Gellivara ore that the 10 tons of irrore now on its way to this country was obtained. The directors intend to blow interference shortly, a sufficient stock of ore having been laid in for the purpose the termains to be seen whether this laudable enterprise will prove a commercial success.

INVESTMENTS AND SPECULATIONS.—The fifth edition of this small INVESTMENTS AND SPECULATIONS.—The fifth edition of this small pamphlet is issued by Mr. Charles Thomas, of 3, Great Bt. Helens. As stated in the preface, it is three years since the issue of the fourth edition, which was noticed in the columns of the Journal; it was then stated that nothing would be lost by a perusal of the book, for there was much good advice in the introduction, and much valuable information with regard to many mines in the preface and general text. In the presence state of the mining market any information or advice from practical authorities respecting the position or prospects of the different undertakings now before the public must be acceptable.

A NEW SOURCE OF DANGER TO RAILWAY TRAVELLERS.—We reet to hear that Mr. Von Uster, F.G.S., the secretary and mining engineer to the
arrow and Butson Mining Company, on his return from the mines, in passing
m his compartment to the luggage van at the Paddington Station, struck with
eat force against a low lamp truck, which with cuipable negligence had been left
side the railing in the path for passengers, and injured both his legs severely.
e is ordered complete rest for some time, putting him, and, of course, his friends
to, to much inconvenience.

A new mining district in Nevada has been suggestively named the Golden Fleece.

IN THE MATTER OF THE BESSEMER STEEL AND ORDNANCE COMPANY (LIMITED),

MATTER OF THE COMPANIES ACTS, 1862 AND 1867.

MATTER OF THE COMPANIES ACTS, 1862 AND 1867.

THE CREDITORS of the ABOVE COMPANY are required on or before the 31st day of December, 1874, to 8END their NAMES and ADDRESSES and the particulars of their DEBTS or CLAIMS, and the names and addresses of their Bolicitors (if any), to Mr. CHARLES FITCH KEMP, at No. 8, Walbrook, in the City of London, one of the Official Liquidators of the said Company; and if so required by notice in writing from the said Official Liquidators, are, by their solicitors, to COME IN and PROVE their said DEBTS or CLAIMS at the Chambers of the Vice-Chancellor Malins, at No. 3, Stone Buildings, Lincoln's at the county of Middlesex, at such time as shall be specified in such notice; or, in default thereof, they will be EXCLUDED from the BENEFIT of any DISTRIBUTION made before such debts are proved.

Friday, the 15th day of January, 1875, at Twelve o'clock at noon, at the said Chambers, is appointed for hearing and adjudicating upon the debts and claims.

Dated this 4th day of November, 1874.

Dated this 4th day of November, 1874.

IN THE MATTER OF THE COMPANIES ACTS, 1862 AND 1867,

MATTER OF THE WEST PANT-Y-GO MINING COMPANY (LIMITED). MATTER OF THE WEST PANTY-GO MINING COMPANY (LIMITED).

THE CREDITORS of the ABOVE-NAMED COMPANY are
REQUIRED to SEND their NAMES, ADDRESSES, and FULL PARTICULARS of their CLAIMS, on or before the 24th instant, to Francis Reed
Wilson, of No. 29, 8t. Helen's-place, London, E.C., Liquidator of the said company, and, if so required by notice in writing from the said Liquidator, are personally or by their solicitors to prove their said debts or claims at such time and
place as shall be specified in such notice, or in default thereof they will be EXCLUDED from the BENEFIT of any DISTRIBUTION made before such debts
are proved.—Dated this 10th day of November, 1874.

IN THE MATTER OF THE COMPANIES ACTS, 1862 AND 1867;

MATTER OF THE PHŒNIX SILVER-LEAD MINING COMPANY

MATTER OF THE PHŒNIX SILVER-LEAD MINING COMPANY (LIMITED).

A T AN EXTRAORDINARY GENERAL MEETING of the Shareholders in the PHŒNIX SILVER-LEAD MINING COMPANY (LIMITED), duly convened, held at the Account-house, on the Mines, Pernarabuloe, in the county of Cornwall, on Wednesday, the 9th day of September, 1874, at One o'clock in the afternoon, the following Special Resolutions were duly passed. And at a subsequent EXTRAORDINARY GENERAL MEETING, duly convened, and held at the same place on the 3rd day of October, 1874, the said resolutions were duly confirmed, as required by the Statute. That is to say—

"That the company be wound up voluntarily."

"That Mr. Frederick Warwick, of 25, Bucklersbury, in the City of London, be appointed Liquidator."

IN THE MATTER OF THE COMPANIES ACTS, 1862 AND 1867;

AND IN THE
MATTER OF THE PHOENIX SILVER LEAD MINING COMPANY
(LIMITED).

IN LIQUIDATION.

THE CREDITORS of the ABOVE-NAMED COMPANY are requested, on or before the 23rd day of December next, to SEND their NAMES and ADDRESSES, and the particulars of their DEBTS or CLAIMS, and the names and addresses of their solicitors (if any), to Mr. Frederick Warwick, of No. 25, Bucklersbury, in the City of London, the Liquidator of the said company; and if required by notice in writing from the said Liquidator are, by their solicitors, to COME IN and FROVE their DEBTS or CLAIMS at such time as shall be specified in such notice; or, in default thereof, they will be EXCLUDED from the BENEFIT of any DISTRIBUTION.

FREDERICK WARWICK, Liquidator.

Dated this 11th day of November, 1874.

Notice is hereby given, that an EXTRAORDINARY or HALF-YEARLY GENERAL MEETING of the Shareholders of this Company will be HELD on MONDAY, the 33rd of November, 1874, at Two o'clock in the afternoon, at the Terminus Hotel, Cannon-street, for the following purposes, viz.:—
To receive a report of the Directors and Statement of Accounts up to the 30th of June last.

To receive a report of the Directors and statement of Accounts up to the soun of June last.

To appoint and to confirm the appointments of Directors, and to fix their re-

nuneration.
The Register of Transfers will be closed on the 20th inst., and will continued losed until the 24th November, both days inclusive.
By order, ALFRED CRITCHETT, Secretary.
Dated this 13th day of November, 1874,
Company's offices, 15, Angle-court, Throgmorton-street, London, E.C.

THE SCOTTISH AUSTRALIAN MINING COMPANY Notice is hereby given, that the HALF-YEARLY GENERAL MEETING of the Bhareholders of the Scottish Australian Mining Company (Limited) will be HELD at tue London Tavern, Bishopsgate-street, London, on FRIDAY, the 20th November instant, at Twelve o'clock at noon precisely, to receive the directors' report and accounts, declare a dividend, and transact the other usual business. The Share Transfer Books will be closed from Thursday, the 12th instant, until Friday, the 20th instant, both days inclusive.

By order of the Directors,

C. GRAINGER, Secretary.

1, King's Arms-yard, Moorgate-street, London, 7th November, 1874.

T. DENNIS CONSOLS.—It having been ascertained that NO LEASE of the MINE was ever TAKEN UP, PERSONS who BOUGHT SHARES are requested to communicate as under with the view of taking JOINT ACTION AGAINST the VENDOR of the SHARES.

Address, "Shareholder," Post Office, 281, City-road, London, E.C.

TO MINING COMPANIES AND OTHERS.

TO MINING COMPANIES AND OTHERS.

MINING COMPANIES requiring really OFFICIAL STAMPING ROTATING STAMPS in practical operation.

His COMBINED AMALGAMATOR, which is the most economic in working, and gives the best results in getting gold, may be seen at the same time. Address, John Walker, 12, James street, Featherstone-street, City-road.

RONSTONE.—ABOUT TWO HUNDRED AND NINETY ACRES may be LEASED, or possibly PURCHASED at once. No agents need apply. For particulars, write to MISS PEIRSON, Pickering.

POUR THOUSAND TONS 72 lbs. FLANGE RAILS; TANK LOCO-MOTIVES, by leading builders, 9 in. to 17 in. cylinder; COAL, COKE at HOPPER WAGONS; fifty sets of WHEELS and AXLES, for 7 ton wagons; do ther PLANT-FOR SALE, CHEAP.

Address, T. E. Minshall, Wrexham.

M R. J. S. M E R R AND ANALYTICAL CHEMIST, SWANSEA.

With this week's Journal a SUPPLEMENTAL SHEET is given, With this week's Journal a SUPPLEMENTAL SHEET is given, which contains—Original Correspondence: Mining in Queensland; Mining in Colorado Territory; Richmond Consolidated Mining Company; Mining in Colorado Territory; Richmond Consolidated Mining Company; Mining Enterprise, and Mr. Henry Sewell (George Attwood); What is Electricity! (R. J. Krickmer); Providence Mines (E. Trythall); South Wales Quarry men's Strike; Roman Gravels Mine, and Mr. Richard Terdinnick; South Condurrow Mining Company (W. Leach, H. Waddington, E. J. Bartlett, R. Knapp, R. Tredinnick); Recent Meetings—Mine Management; Cwm Shop, West Cwm Erfin, Melindur Valley; Van Consols Mine; Bryntall and Van Consols.—Foreign Mining and Metallurgy—Foreign Mine Reports—Patent Matters, &c.—Meetings of the Utah Silver-Lead, Silver Creek Gold, East Pool, West Chiverton, South Frances, Blaen Cwm Bach Steam Coal, and Parbola Companies.

#### The Mining Market: Prices of Metals, Ores, &c.

METAL MARKET-LONDON, Nov. 13, 1874.

COPPER. £	S.	d. £	8.	d.	IRON. per ton. £ s. d. £	8.	d
Best selectedp. ton 96	0	0- 98	0		Bars Welsh, in London 9 5 0-		
Tough cake and tile. 95		0- 97	0	0	Do., to arrive 9 0 0-	_	
Sheathing & sheets 98		0-100	0		Nail rods 9 15 0-	_	
Bolts100	0	0-103	0	0	., Staffd, in London 10 5 0-11	0	0
Bottoms101	0	0-103	0	Õ	Bars ditto11 0 0-12		0
Old 85	0	0- 87	0	0	Hoops,, ditto12 0 0-	_	
Australian 95	0	0- 96		0	Bars ,, at works 10 0 0-11		0
Wireper lb. 0	1	036-	_	-	Hoops, ditto11 0 0-12		0
Tubes 0	ī	2- 0	1	3	Sheets, single, & plates12 15 0-14		0
	_	_	-		Pig No. 1, in Wales 5 0 0-6		
BRASS.		per lt	١,		Refined metal, ditto 7 0 0-8		0
Sheets	***	9%d	_	-		10	0
Wire	***	9%0	-	-			
Tubes					in Type or Tees 8 10 0-	_	
Yellow metal sheathing		81/d	834	đ.	Do., railway, in Wales. 7 0 0-7	5	0
Sheets		8%d	-	-	Do., Swed. in London.16 0 0-17		0
SPELTER.	ne	r ton.			To arrive17 5 0-	-	-
Foreign on the spot., 24			15	0	Pig, No. 1, in Clyde 4 7 0- 5	12	6
to arrive 24	0	0.24	5	0	Do., f.o.b. Tyne or Tees 4 0 0- 4		0
**			-		Do., Nos.3,4, f.o.b., do. 3 10 0-4		0
ZINC.	0	0-31	0	0	Railway chairs 5 0 0- 5	5	0
In sheets 30			U	0	spikes12 10 0-14	0	0
QUICKSILVER (p. bot.) 26	0	0-	_		Indian Charcoal Pigs,	-	-
TIN.					in London, p. ton 8 0 0-10	0	0
English blocks £100	0	0-101	0	0		_	
Do., bars (in brls.) 101	0	0-102	0	0	STEEL. per to Swed., in kegs (rolled) — — — — — — — — — — — — — — — — — — —	II.	
Do., refined 102	0	0-	-		Bwed., in kegs (rolled)	_	
Banca 100	0	0 - 102	0	0	Ditto (mammered)19 0 0-20	U	U
Straits 94	0	0- 95	0	0	Ditto, in faggots20 10 0-	-	
Australian 93	0	0-	_		English, spring19 0 0-24	U	0
TIN-PLATES.*		per bo	ĸ.		LEAD. per to	n.	
IC Charcoal, 1st qua. † £1			_		English Pig, com23 10 0-	-	
IX Do., 1st quality 2			_		Ditto, L.B23 10 0-	_	
IC Do., 2d quality 1	15		-		Ditto, W.B23 10 0-	-	
IX Do., 2d quality 2			_		Ditto, sheet24 10 0-24	15	0
1C Coke				0	Ditto, red lead24 15 0-25		0
IX Ditto				0	Ditto, white30 0 0-32	0	0
Canada plates, p. ton., 19			_		Ditto, patent shot26 10 0-26	15	0
Ditto, at works 18			_		Spanish23 0 0-	-	
Dieto, at works					1 A 133 0- f		

Ditto, sheet ......

Ditto, red lead .....

Ditto, white .....

Ditto, patent shot ....

Spanish † Add 6s. for each X. Terne-plates 2s. per box below tin-plates of similar brand.

REMARKS.—Metals generally occupy a sound and healthy position, and with the exception of manufactured iron, in which the trade exhibits symptoms of business, on the whole is considered satisfactory. The clearness effected lately for consumption are remarkably surprising, especially in copper and tin. The available stocks of both are now considerably reduced, and if the former continues for any length of time at its present rate of deliveries a great scarcity will ensue. The improvement in value, however, has not been commensurate with the magnitude of the transactions, and it would only seem that we are just at the beginning of what and it would only seem that we are just at the beginning of what and it would only seem that we are just the beginning of what may ultimately prove a very important epoch in the market. Lead and spelter are also well placed, and command good prices. Quick-silver has attained an altitude unknown for very many years past. No alteration having been made in the Bank rate last Thursday has allayed any uneasiness that might have prevailed respecting dearer

allayed any uneasiness that might have prevailed respecting dearer money, but the commerce of the country appears to be settled upon such a sure footing that any moderate advance in discount would very slightly affect the regular flow of trade.

COPPER.—A very satisfactory business has again been transacted this week, and enhanced prices have been realised. The demand for consumption continues extremely good, and the present supplies seem inadequate to existing requirements. The announcement of the Chili charters for the first half of October being 1600 tons, is another proof of the comparatively small quantity that will be shipped during the next four months, and as there were only 3100 tons in the whole of September stocks in England cannot, evidently, be increased; but, on the other hand, with the extraordinary demand that has sprung up, may very considerably decrease. The statistical position of our market cannot be unknown to Chili, and, therefore, we may fairly assume one of two things—either she cannot produce more, or that prices are unremunerative. The cause, however, is immaterial; the fact that the recent charters are much under the usual average is sufficient for our guidance, and no one forming an unbiassed opinion of the market can fail to be favourably imthe usual average is sufficient for our guidance, and no one forming an unbiassed opinion of the market can fail to be favourably impressed with its present condition, and thoroughly convinced of the upward tendency in prices. We state this not more in behalf of sellers than of buyers, as it must necessarily be of the utmost consequence to the consumer to be duly warned of any decided course the market is taking. It may be undesirable to have sudden advances in price, but it will be unavoidable if the reduction in stock goes on as rapidly as heretofore, and as the next return will probably show a further diminution buyers must be fully prepared to see enhanced rates. Most of the sales lately of Chili bars have been on cash terms, and this is really a very important feature, as it not only demonstrates the bona fides of the transactions, but also shows that the copper is going into strong hands, and for consumption and cash parcels have commanded as high a rate as deferred prompts.

that the copper is going into strong hands, and for consumption and shipment. As yet there has been little bought for long dates, and cash parcels have commanded as high a rate as deferred prompts. There has been no rampant speculation, and the market has risen purely upon its own merits, and rests upon a substantial basis. Under these circumstances the immediate future of the market is exceedingly good. There is little fear of a reaction, and the improvement promises to be lasting and well supported. Generally on previous occasions, when the market has advanced, the manufacturing branch has been less sustained, but within the last few days sales of 3 by 4 Indian sheets have been made at 97L, and this also may certainly be taken as a very encouraging sign. Further also may certainly be taken as a very encouraging sign. Further orders will, doubtless, quickly follow when the improved state of our market is better known and understood. As a leading contemporary this morning has commented upon the present state of our market we think it only right to caution the trade against the statement. The paragraph is not only very ambiguously worded, but calculated to mislead and throw suspicion upon the accuracy of the statistics and records that have never been questioned before. ne most lenient construction we can nut upon it must be in an utter state of ignorance of the subject. It has produced no effect whatever upon the upward tendency of our mar-ket, and we dismiss it as being unworthy of the slightest con-

IRON.—The condition of the iron trade in South Wales is again as far from a satisfactory settlement as ever. Labour disputes are once more imminent, and it is almost certain that the further contemplated reduction of 10 per cent., which is announced to come templated reduction of 10 per cent., which is announced to come into force on the 17th inst., will be resisted by the men. This will make the third reduction of 10 per cent. which has been enforced during the present year. Unpleasant as it doubtless is to the working man to have to face so large a reduction, yet if the necessities of the trade demand it it would surely be better to submit than by stopping the works altogether, which a strike of course necessarily involves to enter upon the winter season with all the calamities incident upon a period of enforced idleness in view. It is well to bear in mind that if wages have been reduced 30 per cent. the price of iron has undergone a still greater depreciation during the year, and is now fully 40 per cent. cheaper than it has been within that period, and even at this depreciation it is far from easy to effect contracts. With wages still further reduced the margin of profit upon iron is so small that it is a matter of great indifference with the masters whether they carry on business at their rates or not. The weight of the calamity will certainly fall upon themen should they refuse to work at the proposed reduction.

The market in the North of England is fairly supported by the continuance of the demand for pigi-iron, as also for the Continent. This demand is exceptionally good, and has lasted now through a considerable period. The last published weekly shipments to the Scotch coast were in excess of the shipments for the corresponding week last year to the extent of 4000 tons. The result of this support to the market is that the price of pig-iron has been fully maintained, and that notwithstanding some increase in the output stocks have not increased. The trade in finished iron is not brisk, more particularly that branch which forms

the main stay of the northern markets. The enquiry for rails has fallen away to a very strious extent, so much so that many of the rail mills are on short time, and some are closed altogether. There are, however, a few where the conditions are exceptionally favourable, and the owners are able to offer to undertake rail contracts for ordinary sections at 71. 10s. per ton. The remaining branches of the inished iron trade are fairly supplied with work. The demand for ordinary mechant iron, though not so good as it has been, still affords a measure of strength to prices, and makers will fer some little time continue to be engeged upon order already booked. The same may be said for the plate trade, but owing to a strict among the shipwrights for a shortening of the hours of work throughout the winter season the consumption is lessened, and fresh orders do not come in very freely. The price of Scotch pigs to-day is \$5s. 6d. to \$5s. 9d., with slightly better demand.

Lead.—The firmness of the market continues, and sellers will not dispose of more than moderate quantities at present rates. Speedy deliveries of large parcels are still difficult to obtain, owing to the very limited importations of the last few months, but it is hoped that increased supplies from Spain will soon be received, and that there will be less inconvenience than litherto experienced on this account: besides, current rates offer but little or no inducement to shippers to the East, and the demand, therefore, is not unlikely to slacken off for these ports. This undoubtedly would afford further relief to the existing strain on smelters, and thus enable the market to receive in some degree its former equilibrium, and allow of sellers accepting business of greater magnitude with more reliable and reasonable periods of delivery than they are willing or see their way clear as yet to commit themselves to.

SPELFER.—The market maintains its former position, but they have been few transactions reported. Silesian is not in very pleatiful supply, and stocks are much reduced in London. English is quoted 25\(\beta\), hard, 16\(\hat{l}\) to 16s. 10d.

ZINC.—160 tons of London rolled were offered for sale by public auction on the 12th, 105 tons of which were sold at 22\(\hat{l}\). 10s.

TIN-PLATES.—The coke, sales have been effected at 26s. 6d., but the demand is not very brisk at this price. Charcoals are more wanted, and command better sales in comparison with cokes.

QUICKSILVER.—The price is at least 25\(\hat{l}\) per bottle, but sellers are not disposed to make sales to any extent at this price, and it is not impossible higher prices will rule.

STEEL.—Foreign steel continues neglected, but prices have not undergone any material alteration.

Tin.—A good enquiry exists for consumption, and prices continue to be undeld with firmess. Several lots of Straits have been time to be undeld with firmess. LEAD.—The firmness of the market continues, and sellers will not

TIN.—A good enquiry exists for consumption, and prices continue to be upheld with firmness. Several lots of Straits have been disposed of both on the spot and for arrival, likewise Australian, and the market closes steady at our quotations. The Netherlands Trading Company advertise their next sale of Banca for Nov. 28, when 20,000 slabs will be brought forward.

Messrs. Vivian, Younger, and Bond—Copper: On the 9th inst. the charters for the first half of October were advised by cable from Valpanie, dated the 17th ult., as equal to about 1800 tons in fine copper, but without turber details. This quantity being moderate, the market once more resumed the appearance of the preceding week, and again large transactions took place in the large transactions took place in Chill bars, at from 87l. to 88l, both on the spot and to arrive. The slight panie at the end of last week, as might have been expected, produced some desire amongst speculators to realise the profits of their late purchases. In this namer a good deal changed hands, but the main feature of the market is the scarcity of bars of good brands on the spot, which are much in request from consumers, and command very full rates. Australian sorts are firmly held for a proportionate advance, but are rather neglected at present. In furnace material sales of good ores, at 18s. 7½d. to 18s. 9d. per unit, and in Chilian regulus a cargo to arrive is reported at 17s. 6d. per unit. The smelters have advanced their rates to 103l, for stong sheets, and 97l. for best selected, and 95l. for tough, which at present are rather protective than otherwise, though at 2l. less for unmanufactured there is a good enquiry. —Thy: Straits and Australian slab have commanded full rates on the spot, owing to the small quantities offered from day to day, and prices are about 20s, dearer for the week. The Dutch Trading Company have announced that at their usual public sale, on the 26th inst., 20, 100 slabs of Barnca only will be offered. For arrival, Straits, 94s. has been paid, November-December shipment, and 8l. for Australian, ship named.

For arrival, Straits, 94s. has been paid, November-December shipment, and §8. for Australian, ship named.

Messrs, James and Shakspeare—COPPER: Sales of ore by private contract are reported at 16s. 9d. and 17s., and of regulus, to arrive, at 17s. 6d. ps unit: the quantity of either sort now available is exceedingly limited, and heldes extreme rates. In bars a large trade has been done, but chiefly in parcels to arrive, or for delivery forward, stuff on spot being exceedingly scarce. It will be seen, by reference to our last statistics, that the stock on 1st inst., here and on the Contined, was only 13,616 tons in all; lower, in fact, than in January, 1872, when the figure stood at 13,696 tons, the price of good ordinary brands being then 90., Perton. The quantity of bars afloat from Chili at that period was about 6500 tons, whereas at present it is about 3300 tons only; we are, therefore, evidently approaching the time of very low stocks, and a consequently sensitive market; for it must not be forgotten that consumption is so much greater now than in former years, as to require larger supplies than were then necessary. Australian sorts have participated in the general improvement, but the trade therein was not particularly brist. Smelters have advanced their official quotations for English to the top figures give no our list, and although several of them are apparently unwilling believers in the permanence of the advance, yet they carefully refrain from booking orders, except to a limited extent; from which the inference might be drawn that theirs has caught them short of stock. —Thy: English continues rather quice, butsmelter are asking higher rates, and appear willing to take orders only at their own price. The rise in the value of foreign sorts has been maintained, and we have again to note a good business both in Australian and Straits, though during the last day of two the former description was somewhat neglected, whilst in the latter some speculation is still going on. The Dutch auction of Banca is fixed

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Messrs. Pixley and Abell—Gold: With the exception of the trifling amounts of 9000/, from the Brazils and 3610/, from Africa, there harded no arrivals of gold; and as the demand for the Continent has continued and during the week, recourse has been had to the Bank, and has an tool to the value of 413,000/, taken out. The 76,000/, in the Great Britain has also been side for arrival, and we may look for further withdrawals from the Bank, the Frend exchanges continuing at a point as to render such operations profitable. The Swa has taken 20,000 sovereigns to the Brazils.—SILYER: A demand for India during the past week caused a sudden rise in the price to 58d, for a few small amount, arriving in time for shipment by the steamer leaving to-day. The marks is now quiet, and we quote 58d, per oz. as the nearest price. The arrivals during the was comprise 61,040/, all from New York. The P. and. O. steamer takes 89,150/, to India

THE IRON TRADE—(Griffiths's Weekly Report).—Friday Evening, Nov. 13.—The Glasgow market for Scotch pigs closed this (Friday) alternost it 855, 9d. buyers for G.M.B. iron. We quote makers' No. 1 iron as follows:—Griffiths's sherrie, 1065; Coltness, 106s.; Calder, 106s.; Langloan, 103s.; Summeries, 9s.; Monkland, 90s., f.o.b. Glasgow; Glengarnock, 97s.; Eglinton, 89s., f.o.b. Gress. The market closed this day week in Glasgow at 84s. 6d. sellers, which leaves the value of 64; iron 64. per fon better to-day than it was this day week. With regard to be general market, there is very little change to notice. The orders here still one best iron, and the bulk of the business continus to go into the districts indisated our last report. The deliveries this week in the Thames have been much above business are also shown in the state of the still required for a Canadian region in the Dominion are already given to a Besserner rail works in the United States. We have nothing of importance to report in rail connects but we are information from a reliable source in Liverpool. The task We have had this information from a reliable source in Liverpool. The task into the American trade will not be manifested until the late spring main then of the American trade will not be manifested until the late spring main to in the American trade will not be manifested until the late spring main of 1875. The Mersey Steel and Iron Company at this port are well occupied of 1875. The Mersey Steel and Iron Company has a world-wide fame, are beings in iron, for which the Mersey Company has a world-wide fame, are being in iron, for which the Mersey Company has a world-wide fame, are being in iron, for which the Mersey Company has a world-wide fame, are being in iron, for which the Mersey Company has a world-wide fame, are being in iron, for which the Mersey Company has a world-wide fame, are being in iron, for which the Mersey Company has a world-wide fame, are being in iron, for which the Mersey Company has a world-wide fame, are being in iron, for THE IRON TRADE-(Griffiths's Weekly Report). -Colliery shares have I

COLLIERIES AND IRON COMPANIES.—Colliery shares have with considerable enquiry during the week, especially Thorp's Gawber, Bill Crump, Cardiff and Swansea, and Chapel House. West Cumberland In 6 dis.; Stanley Coal, A, 117½ to 118½; Bilbox Iron, 42 to 49½; Ebbw 7 6 dis.; Hopkins Gilks, 3½ to 2½ dis.; John Bagnall, 7 to 7½; Shef 63½ dis.; Hopkins Gilks, 3½ to 18½; Slibs Stone Pall, 26s. to 38. stone and Dodworth, 20½ to 21½; Merry and Caninghame, 76s. to 72s.; Fistone and Dodworth, 20½ to 21½; Merry and Caninghame, 76s. to 72s.; Fistone and Dodworth, 20½ dis. At a meeting of the Wigan delegates on Well and Caning of the Collegates of the Wigan delegates of South Wales has not yet been accepted by the men, who appear to fel single against the drop, accusing the masters of attempting to throw upon the works. COLLIERIES AND IRON COMPANIES.

the entire loss resulting from the existing depression of trade. Albion Steel, 2 to 2½; from the directors' report we observe that the profits made by Mr. A. Davey in his dealings with the company have been recovered, but no settlement has yet been made with Mr. S. Martin for similar profits. The deed of compromise between the vendors and the company received the written assent of every shareholder, and was completed within the specified time. A proposition has been mooted of reducing the capital to (say) 23,0004, making the value of each share about 34. 10s. Bilson and Crump, 10½ to 11; Chapel House, 4½ to 4½; Clee Hill, 56.64, to 10s.; Cardiff and Swansea, 4¾ to 4½; Thorp's Gauber, 13½ to 15½; United Bituminous, 5s. to 10s.

The MINING SHARE MARKET has been a little firmer for tin shares,

The MINING SHARE MARKET has been a little firmer for tin shares, but without any material alteration in quotations, or in the amount of business transactions. The settlement of the fortnightly account was comparatively a small affair.

The miner has been labouring under the impression for some time past that the stocks of copper in hand were low and diminishing, and that he was not receiving for his ores a price at all commensurate with the price the smelters were making for the metal. And, further, that the rise in metallic copper of late had been greater in proportion than the rise in the ores. This opinion was also confirmed by a statement in the Mining Journal of last week that the price of bars, which on Oct. 1 was 81.5. 5s., had advanced to 871. 10s.—a far greater rise that we have had in the ores. Again, it was also stated in the same article on the copper trade that in the month of October the stocks in hand had decreased 2000 tons; in which, including quantities afloat and chartered, there was also a decrease of 1500 tons. A correspondent of the Times, however, would seem 1500 tons. A correspondent of the *Times*, however, would seem to make out the very reverse of all this, for he says, "While prices are 2 to 3 per cent. lower for the smelted copper, prices for the ores have gone up 5 or 6 per cent. prices are 2 to 3 per cent. lower for the smelted copper, prices for the ores have gone up 5 or 6 per cent. during the year without any distinct cause." Now, during the year the standard for copper ores has been very much depressed, and in the month of October rose about 7s. per ton to the miner, while it will be seen in the same month Chili bars rose 6l. 10s. per ton.

The shares dealt in since our last have been Wheal Peevor, Pennerley, Hingston Down, Tankerville, Roman Gravels, Carn Brea, Wheal Grenville, Penstruthal, Providence Mines, Wheal Kitty (St. Agnes), East Grenville, Devon Great Consols, West Basset, and a few others.

Wheal Peevor shares have been weaker, and leave off 6 to 7; a wheal resevor shares have been weaker, and leave on or , a vugh, or open cavity, appeared in the lode at the shaft, and reduced its value to 30%. per fathom; this vugh, we understand, has drained the water from the sink below the 48, where the lode, as far as can be seen, is worth 40% per fathom. Carn Brea, 55 to 57½; the different points in operation at the mine are worth in the aggregate

ferent points in operation at the mine are worth in the aggregate 301l. per fathom.

South Frances, 10 to 12; at the meeting, held in Cornwall, a call of 4l. per share was made. The accounts showed—costs from June to September, 3068l. Credits—tin sold, 1650l.; copper ores, 66l.; sundries, 28l.: total, 1687l.; and a loss on four months' working of 1323l. Balance against the company, 2081l. The agents' report anticipates for the ensuing three months about the same loss per month as a typesant. A resolution was passed expressing antice confidence. as at present. A resolution was passed expressing entire confidence in the present executive, including its purser, manager, and agents. For the month of October 10 tons of tin were sold from the new tin

in the present executive, including its purser, manager, and agents. For the month of October 10 tons of tin were sold from the new tin lode, thus showing what can be done when the ground is properly laid open and ventilated. West Seton, 20 to 22; at the meeting, on Tuesday, the accounts showed a loss on three months' working of 302l., and a balance in hand of 755l. The sales of copper realised 2670l; arsenic, 165l.; tin, 43 tons, 2367l. But for an accident to the machinery the returns of tin would have been greater. The lode in the 150 is small at present, but the indications are good, and in a few fathoms further driving it will come under a large and profitable lode gone down in the 140.

East Pool, 8 to 8½; at the meeting held on the mine, which was rather stormy in reference to the debts, the accounts for two months showed—sales of ore, 5072l.; costs, 3394l.: profit, 1077l. The accounts were charged up to June, and as an excuse for the debt it was explained by the Chairman that the mine had been put to an expense of 17,000l. altogether, through a series of misfortunes; but he congratulated the shareholders on the brilliant prospects now before them. The agent's report says that the general appearance of the mine is fully equal to what it has been at any former period, and the advantages gained by the communication of the two levels at the 130 enable them to assert that the returns will be gradually sugmented. Devon Great Consols, 1½ to 2; the 145 east on the new south lode, is a good course of ore, worth 10 tons, or 50l., per fathom. The 130 east is worth 10l. per fathom. Kitto's winze, below the 115, at railway shaft, is worth 3 tons of ore per fathom. Wheal Grenville, 5 to 5½; the lode in the 160 cross-cut is worth 35l, per fathom. In the 130 cross-cut ground more favourable.

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rise, in back of the 100, is worth 4 tons per fathom. Wheal Grenville, 5 to 5½; the lode in the 160 cross-cut is worth 35l, per fathom. In the 130 cross-cut ground more favourable.

Cargoll, 1½ to 1½; at the meeting held in Cornwall a call of 3s, per share was made. The debit balance was 1094l. The prospects of the mine are considered good. Parbola, 1 to 1½; at the meeting, held on Thursday, the accounts showed a balance against the company of 2955l.; which is to be turned into a limited liability company, of 4000 shares, at 6l. each. The tin ores sold up to Oct. 23 realised 1981l., and the agents hope ere long to increase the return so as to make a considerable profit. West Tolgus shares have declined to 73, 75, owing to an accident to the machinery. Wheal Jane has been in demand at 3¾, and the mine looking well. Wheal Uny, 3½ to 3½, buyers. Hingston Down has advanced to 1½, 1½; a telegram has been received from Capt. James Richards this afternoon, stating that there has been an important improvement in the 110 west; there is a fine lode, worth 30l. per fathom, and promising further improvement. The 150, east of winze, has also improved; it is now worth 20l. per fathom, and most promising. Cook's Kitchen, 9 to 10; Dolcoath, 48 to 50; East Caradon, 1 to 1½; East Van, ¾ to 1; Gawton, ½ to 3; Great Van, 15s. to 20s.; Ladywell, 2½ to 3; Marke Valley, 1 to 1½; Pennerley, 1½ to 1½; Penstruthal, 11s. to 13s.. Prince of Wales flat, at 7s. 6d. to 10s.; Providence Mines, 5 to 5½; Roman Gravels, 13 to 14.

Rosewall Hill and Ransom United. 5s. to 7s. 6d.; South Carn Brea.

Gravels, 13 to 14.

Rosewall Hill and Ransom United, 5s. to 7s. 6d.; South Carn Brea, 1½ to 1½; South Caradon, 100 to 120; South Condurrow, 4 to 4½; Tankerville, 7 to 7½; Tincroft, 30 to 31; Van, 22½ to 25; Van Consols, 2½ to 2½; West Basset, 8½ to 9; West Esgair Lle, 2½ to 2½; West Basset, 8½ to 9; West Esgair Lle, 2½ to 2½; West Basset, 8½ to 9; West Esgair Lle, 2½ to 23; West Frances, 9 to 10; West Maria and Fortescue, 7s. 6d. to 12s. 6d.; Wheal Basset, 20 to 22½; Wheal Crebor, 1½ to 1½; Wheal Kitty (St. Agnes), 5 to 5½. South Roman Gravels, 12s. 6d. to 17s. 6d.; the agents are looking for a good discovery here. In the 20 east the lode is 3½ ft, wide, composed of carbonate of lime, interspersed with lead ore throughout. This end it is expected will shortly intersect the new lode. The 20 west is producing splendid lumps of solid lead ore. The new engine works well. Cathedral, 17s. 6d. to 22s. 6d.; this mine is said to be looking well. East Grenville shares have been in request at 7s. 6d. to 10s. Parys Mountain, 6s. to 8s. Cape Copper, 28 to 30; Eberhardt and Aurora, 4½ to 5; Emma, 15 to 1½; Flagstaff, 1½ to 1½; Last Chance, ½ to 1½; New Quebrada, ½ to 3½; Richmond, 7 to 7½; Sweetland Creek, 2½ to 3½; Tecoma, The Market for Mine Chance, 25 to 3½; Tecoma, The Market for Mine Chance, 25 to 3½; Tecoma, The Market for Mine Chance, 25 to 3½; Tecoma, The Market for Mine Chance, 25 to 32; Tecoma, The Market for Mine Chance, 25 to 32; Tecoma, The Market for Mine Chance, 25 to 32; Tecoma, The Market for Mine Chance, 25 to 32; Tecoma, The Market for Mine Chance, 25 to 32; Tecoma, The Market for Mine Chance, 25 to 32; Tecoma, The Market for Mine Chance, 25 to 32; Tecoma, 25 to 32; Teco

The Market for Mine Shares on the Stock Exchange during the week, although somewhat interferred with by the fortnightly settlement which was completed yesterday (Friday), has maintained the firm and active tone observable during the past few weeks. The improvement in the trade of the country, as indicated by the recently-published Roard of Trade returns is producing its name effect upon

improvement in the trade of the country, as indicated by the recently-published Board of Trade returns, is producing its usual effect upon the value of metals, and a corresponding advance in mining values, notably in lead and tin descriptions, and there seems solid ground for the general impression that with the turn of the year mining investments will be eagerly sought after at enhanced prices.

American mines have continued without feature, and but little business has taken place. Flagstaff shares remain inactive at 1½ to 1½ while Richmond, Eberhardt, and others have changed hands at quotations. This department, always comparatively depressed at this season of the year, owing to the partial suspension of operations during the winter, manifests unusual dulness just now from other causes, and little change is anticipated until after the opening of the

average assay of \$100 in silver to the ton. The ore in this lode, as well as in the previous discovery below the Lizette tunnel, consists of rich carbonates, and is heavy in lead. The more recent cables, which speak of the ore as splendid and the bottom of the lode as magnificent, indicate that the first promise is not diminished in depth. The prospect of increased value of the ore accompanying the great additions made to its bulk is full of promise for the future. It is a significent fact also that in pursuing the work of future. It is a significant fact also that in pursuing the work of exploration so much ore is found and taken out that the furnaces are insufficient to deal with much above half, and that the ore is, therefore, accumulatings on the dumps. The make of bullion to this date for the season amounts to \$1,078,000. The Eureka Con-solidated, a San Francisco incorporation, which adjoins Richmond, has paid three dividends of \$50,000 each during the year. On the has paid three dividends of \$50,000 each during the year. On the previous fiscal year four dividends of the same amount were paid, and during the year 1871 \$275,000 were thus paid, making a total of \$625,000 paid in dividends since the opening of the mine. This property was conditionally acquired in 1870, and, under the name of the Champion Company, was organised with a capital of 60,000%. All the capital being subscribed the acceptance of the property was made contingent upon the favourable report of Capt. Frank Evans, who was sent out to Eureka Nevada for that purpose. Capt. Evans, in confunction with Capt. Brown, the then superin-Frank Evans, who was sent out to Eureka Nevada for that purpose. Capt. Evans, in conjunction with Capt. Brown, the then superintendent of the Pacific Company, made the examination, and sent telegrams and reports condemning the property, and strongly advised its non-purchase. The organisation, nevertheless these unfavourable reports, was kept together for some time, and in the meantime one of the directors visited the property, and strongly recommended the completion of the purchase. In the interval Capt. Evans had returned to this country, and at the meeting called to decide the question of purchase or non-purchase his counsels for non-purchase prevailed, and the loss to the subscribers can only in a measure be seen by the results achieved by the San Francisco Company; for in all 'probability the present Richmond Consolidated would have fallen into the very same hands, that property having been subsequently offered to the same parties for 55.000l. It appears that the shares in the Eureka Consolidated are selling at \$12, there being 50,000 shares in the company. This price is equivalent to \$600,000, or 120,000l., for the whole mine, and as it will be sen that the dividends of this year (\$150,000) represent 50 per cent. upon a capital of \$60,000l., a proposed under the as it will be seen that the dividends of this year (\$150,000) represent 50 per cent, upon a capital of 60,000%, as proposed under the Champion organisation, it is safe to say that, had the purchase been carried out, with the shown results of the past three! years the shares would be selling for twice as much in this market as in that of San Francisco, which would make the property represent a present market value of 240,000%, which, added to 125,000%, the net results for the past four years, would make an aggregate total of 365,000%, which would be over 500 per cent, upon the original proposed investment of 60,000%. Well may the subscribers to the proposed Champion Company regret having taken the advice they did. osed Champion Company regret having taken the advice they did. Emma shares have declined to 1 to 11; it has been decided that

Emma shares have declined to 1 to 1\frac{1}{4}; it has been decided that the petition for winding up the company shall be heard in private. Last Chance, \frac{3}{4} to 1\frac{1}{4}; 'Tecoma, \frac{1}{4} to \frac{3}{6}. Utah, \frac{1}{4} to \frac{3}{4}; to 1\frac{1}{4}; 'Tecoma, \frac{1}{4} to \frac{3}{6}. Utah, \frac{1}{4} to \frac{3}{6}; the adjourned annual meeting was held on Tuesday. A full report will be found in another column. The works having been leased for six months, nothing can be done during that period, but the reports of Prof. Clayton and others say that if the mine is further developed, no doubt good paying ore will be met with. Possibly the directors may arrange to commence again when winter is past.

Hydraulic gold mine shares have been in more request, and a slight advance has taken place in Birdseve Creek and Cedar Creek,

slight advance has taken place in Birdseye Creek and Cedar Creek, Sweetland Creek are firm at quotations. Blue Tent quiet, but unaltered in price.

Cedar Creek,  $1\frac{1}{2}$  to  $1\frac{3}{4}$ ; the annual meeting was held on Thursday. A full account will be found in another column. The directors stated that they had instructed two competent persons to survey stated that they had instructed two competent persons to survey the property, whose reports they expected in a few days, when they would be at once forwarded to the members. They also intimated their intention of inviting the shareholders to take up the unissued debentures, and failing to obtain their co-operation to endeavour to make arrangements for their issue elsewhere. The shareholders would do well to take up these debentures, and thus keep the control of their property. Blue-Tent, 5 to 5½; we have no alteration to notice here, all matters are in good order. Birdseye Creek, 2½ to 2½; all operations are progressing as usual, and work on the new tunnel is being pressed with as much speed as possible. Sweetland Creek, 3 to 3½; Mr. McLean writes that from all he can ascertain he hopes that the ditch connection will be completed by the middle of

tunnel is being pressed with as much speed as possible. Sweetland Creek, 3 to 3\frac{1}{4}; Mr. McLean writes that from all he can ascertain he hopes that the ditch connection will be completed by the middle of this month. He is then prepared to recommence washing at once. Gold Run firm, at 10s. to 12s. The 10l. debentures are 15s. prem. The tunnel is now progressing satisfactorily with three shifts of men of eight hours each.

Colorado Terrible, 3\frac{1}{4} to 4; the 5\frac{1}{4} th and 55th shipments—10 tons each—have arrived in Liverpool this week. The 48th and 49th are advertised for sale in Liverpool on the 18th inst., and the 50th and 51st on the 30th inst. It is expected they will fetch the usual price for dressed mineral—80l. to 90l. per ton. New Pacific, \(\frac{3}{4} to \frac{1}{2};\) no change from the mine; operations are proceeding as usual. St. John del Rey, 240 to 250; the produce for twelve days in October was 10,500 oits. Don Pedro, \(\frac{1}{4} to \frac{1}{2};\) the estimate for October from Sierra Buttes were \(\frac{3}{6}, 455,\) against a cost of \(\frac{2}{2}0, 863l,\), and from Plumas Eureka \(\frac{3}{2}0, 970,\) against a cost of \(\frac{2}{2}0, 863l,\), and from Plumas Eureka \(\frac{3}{2}0, 970,\) against a cost of \(\frac{2}{2}0, 863l,\), and from Plumas Hurle were some at the Original Amador Mine are reported as very encouraging at first level north of Prospect shaft. Mineral Hill raised during the week ending Oct. 19, 50 tons of ore of an average grade of \(\frac{2}{2}40\) per ton. The Australian Mines Investment Company have declared a dividend out of the net profit of 1s. per 1l. share.

ment Company have declared a dividend out of the net profit of 1s. per 1l. share. Van,  $22\frac{1}{2}$  to 25; the shaft is now down deep enough for another level, and as soon as it is cased and divided a cross-cut will be commenced to cut the lode at the 90. The 75 end west is improved; other parts much the same. The usual sale, 500 tons, will take place next week. Van Consols,  $2\frac{3}{2}$  to  $2\frac{5}{2}$ ; the lead recently discovered in the bottom level driving west from No. 2 winze is a most promising feature, showing as it clearly does that the opinion entertained by the executive that a course of lead would be met with at this dente the executive that a course of lead would be met with at this depth is on the point of realisation. Bog,  $\frac{1}{8}$  to  $\frac{3}{8}$ ; the great discovery on Whitestone lode still maintains its value—5 tons of lead per fathom. Whitestone lode still maintains its value—5 tons of lead per fathom. The Chairman has visited the mine, and is so impressed with the value of the discovery that he has issued a circular to the shareholders urging them to co-operate and take up some preference shares, so as to save the property for the present shareholders. It is to be hoped that this appeal will be successful, as it is a pity to see so fine a mine sacrificed. Pennerley, 1½ to 1½; from the report in another column it will be seen that the mine is opening out much better. There are several points of interest to be watched during the next few weeks. Perkins Beach, ½ to ½; this mine has passed into liquidation. We are informed that some of the shareholders are arranging to buy the property, with a view of giving it a better trial. Penstruthal, ½ to ½; the meeting has been called for Nov. 25, when a satisfactory statement will be submitted.

Subjoined are the closing quotations:—

Nov. 25, when a satisfactory statement will be submitted. Subjoined are the closing quotations:—

Carn Bras. 57 to 58: Cook's Kitchen, 9 to 10; Devon Great Consols, 1½ to 2½; Dolcoath, 47½ to 50; East Caradon, ½ to 1; East|Lovell, 10 to 12; East Van, ½ to 1; Great Laxey, 11 to 12; Hingston Down, 1 to 1½; Marke Valley, ¾ to 1; Pennerley, 1½ to 1½; Parys Mountain, ¾ to ¾; Penstruthal, ½ to ¾; Roman Gravels, 13 to 14; Bouth Condurrow, 3½ to 3½; Tincroft, 31 to 32; Tankerville, ¾ to 1½; Van, 2½½ to 25; Van Consols, 2½ to 2½; West Basset, 8 to 10; West Chiverton, 1½ to 2½; West Tankerville, ¾ to ½; Wheal Grenville, 5 to 5½; Bog, ½ to 3½; Great West Van, ¾ to 1; Almada and Tirito, ¾ to ½; Blue Tent, 5 to 5½; Birdseye Creek, 2½ to 2½; Cedar Creek, 1½ to 1½; Cape Copper, 28 to 29; Colorado Terrible, 3½ to 4; Chontales, ¾ to ½; Don Pedro, ¼ to ½; Erchardt and Aurora, 4½ to 3; Emma, 1 to 1½; Flagstaff, 1½ to 1½; Frontino and Bolivia, ½ to ½; Independence, 2½ to 3½; Last Chance, ¾ to 1½; Malpaso, ½ to 1; Malabar, ½ to 3½; New Quebrada, 3 to 3½; New Zealand Kapanga, 2½ to 3½; Port Phillip, ½ to 3½; Rica, ¾ to ½; Richmond Consolidated, 6½ to 7½; Klo Tilto, 1 dis. to par: South Aurora, ½ to ½; Suribed and Creek, 3 to 3½; Suribed

The Scottish Australian Mining Company half-yearly report states The Scottish Australian Mining Company nair-yearly report states that the coal trade of the colony has continued to be well maintained. The company sales of coal amounted to 69,220 tons for the half-year ending June 30, as against 72,235 tons sold during the corresponding six months of 1873. The net out of the first workings on the newly-discovered lode yielded an to 12,630%. 4s. 8d., as shown by the colliery profit and loss account; the necessary long of the state of the colony has continued to 69,220 tons for the half-year ending June 30, as against 72,235 tons sold during the corresponding six months of 1873. The net out of the first workings on the newly-discovered lode yielded an

disbursements for maintenance and renewal having been made and charged to that account. The price of large coal during the period has been 14s. and of small coal is. per ton, less the current discount. The demand for the coal produced by the Australian colonies is steadily increasing.

It is announced that the subscription lists for the issue of 300,000l., the balance of the share capital of the Banbury and Cheltenham Direct Railway Company, will be closed on Tuesday next, the 17th inst. for London, and on Wednesday next, the 11th inst., for the country.

It is announced that the books for the registration of transfers of shares of the Atlantic and Great Western Railroad Company will be closed in New York from Saturday, Nov. 4, to Monday, Dec. 14.

The Eric Railway Con.pany announce that the coupons due on Dec. 1 next on the issue of 3,000,000l. Second Consolidated Mortgage Seven per Cent. Sterling Bonds will be paid on and after that date at the London offices of the company.

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Particulars by letter. ARMAND FALLIZE, Ingénieur, à Liége (Belgium)

SALT LAKE CITY, UTAH TERRITORY, U.S. AMERICA.

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MINING AND CONSULTING ENGINEER, U.S. MINERAL SURVEYOR.

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under agent.
h testimonials, and stating salary required, Mr. J. H. MURCHISON,

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Nov. 7-	Mines.	T	one	. 1	man				40 .
Nov. 7-	Elmande Mills			70 A	rice	per	to	n.	Purchasers.
_								******	Nevill, Druce, and Co.
		*********				9	6		
10-	Lisburne-E	Logylas.	10	********		10	0	******	Panther Lead Company
-	. ,,(	logfach	14		19		0		Sheldon, Bush, and Co.
	East Darren					6			Weston, Son, and Co.
-	Cwmystwith	1	10	********	13	13	9	******	Nevill, Druce, and Co.
11-	Melindur V	alley	25	*******	14	1	6		St. Helen's Smelting Co
12-	Roman Grav	vels	30	*** *****	14	14	6		Walker, Parker, and Co
-	ditto					16	0		Nevill, Druce, and Co.
-	ditto	********	50		14	19	6	******	Burry Port Company.
_	ditto	*******	50	*******	14	17			George Burr.
-	ditto	*******	50		14	15	0	******	ditto
_	Talargoch	*******	65	*******		2	6		Walker, Parker, and Co
_	ditto	************	75	*******	15	7	6		ditto
_	North Hend	re	30		14	17	6		Adam Eyton.
-	ditto	**********	5		16	10	0		ditto
_	Prince Patri	ek	50		15	7	0	*****	Walker, Parkes, and Co
_	So. Prince P	atrick	20	********	14	18			Adam Eyton.
	ditto	******	20		14	18	6		Walker, Parker, and Co
_	Halkyn Dee	p Level	15		14	18	6		
-	Gorsedd & C	elvn Level	10		13	16	6		Adam Eyton.
_	Wagstaff		91	4	13	13			ditto
	St. David's				14	2	6		ditto
	Queen				14	5			Walker, Parker, and Co
	South Darre								Nevill, Druce, and Co.

Date. Mines. Tons. Nov. 9—Burrow and Butson..120 ... Price per ton. n. Purchasers. ..... Villiers Spelter Company

BLACK TIN.

Tons c. q. lb. Price per ton. Amount. Purchasers,

#### Mining Correspondence.

#### BRITISH MINES.

ABERDAUNANT.—8. Toy, Nov. 11: No. 2 addit, driving east, is producing stones of lead. We are making good progress in rising above this level, and I expect by the end of this week we shall be high enough to drive west and communicate with the old rise; when this is completed we shall soon commence to blast into the north and productive part of the lode. No. 4 stope, over this level, is worth 13%.

ABERYSTWITH.—Capt. J. Trevethan, Nov. 6: The east end at the 86 is still when the lode is the lode of the lode.

port and productive part of the lode. No. 3 stop, ever this rect, is seek, per cutic fathom for lead.

ABERYSTWITH.—Capt. J. Trevethan, Nov. 6: The cast end at the 86 is still very hard; the lode is 4 fins. wide, and every part of it is thickly spotted with lead ore. The west end is also harder, and contains stones of lead ore. The tribute pitch looks well, and the men are carning 20s. a week.

AMNODD AND NANTDDU.—John Kemp, Nov. 12: I am glad to say that the engine-shaft is going down in very congenial ground; indeed, it has become much more settled, containing some nice carbonate of lime, and this last week we have found some nice lumps of solid lead in the open joints, which it think speaks well for the intersection of the lode. The weather, so far, is very favourable, and the machinery is working well.

BEDFORD UNITED.—W. Phillips, Nov. 12: Operations are by the side of the lode generally in the levels, and the stopes continue to look much the same as for

REMEMBLY UNITED.—W. Finiups, Nov. 12: Operations are by the side of the generally in the levels, and the stopes continue to look much the same as for the past. The lode in the rise in the back of the 47 fm. level east is looking this distribution.

mere sattled, containing some nice carfonate of lime, and this lack week we nave found some inclumps of solid lead in the open joints, which I think speaks well for the best of the property of the land of the l ground is still of the same character as for some time past.—Vivian's Shaft: To drive the 220 east by eight men, the month, at 121. 10s, per fathom; the lode is 2 ft. wide, yielding a little copper ore, and from appearances we think this end will shortly improve.—Pelly's Shaft: To drive the 248 west by eight men, the month, at 201, per fathom; the lode is 2 ft. wide, and yields a little copper ore, and some good stones of tin. To drive the 248, east of shaft, by six men, the month, at 181. per fathom; the lode is 1 ft. wide, occasionally producing stones of copper ore. To drive the 234 east by six men, the month, at 131. 10s, per fathom: the lode is 1 ft. wide, composed principally of spar. To drive the 234, east of the winze, in the bottom of the 234 by six men, the month, at 201. per fathom: the lode is 5 ft. wide, and yields tinstuff to stamp, and a little copper ore.—Blewitt's Shaft: To drive the 234, west of shaft, by six men, the month, at 70. los, per fathom; the lode here is a little disordered. To rise in the back of the 220, against Richards's shaft, by eight men, the month, at 141. per fathom; the lode is 4½ ft. wide, and yields 2 tons of copper ore per fathom.

Richards's Shaft: To sink below the 210, by six men, the month or hole, at 111 per fathom; the lode is 4½ ft. wide, and will yield 1½ ton of copper ore; we hope to get a communication to the 220 this month. To drive the 210, west of shaft, by six men, the month, at 84. 10s, per fathom; the lode is 5 ft. wide, and produces 1½ ton of copper ore per fathom. To sink a winze below the 200, west of shaft, by six men, the month, at 84. 10s, per fathom; the lode is 5 ft. wide, and produces 1½ ton so copper ore per fathom. To drive the 200 west, by six men, the month, at 74. 10s, per fathom; the lode is 5 ft. wide, and produces 1½ ton so copper ore per fathom. To drive the 200 west, by six men, the month, at 74. 10s, per fathom; the lode is 5 ft. wide, and produces 1½ ton so copper ore per fathom; this end is now within 3 fms. of being under Willyam's

314 men and bovs.

CWM DWYFOR.—J. Jewell, Nov. 12: The part of the lode that is being carried in the No. 1 level, driving east of the north cross-cut, is looking better for copper ore—a fine looking lode. We shall lose no time in getting this level communicated with the little shaft sunk from surface on this lode, and where the lode will yield lead and copper ores in paying quantities. The lode in No. 1 level, driving east of the south cross-cut, has improved for lead. We have met with a vugh in the lead-bearing portion of the lode, which produces good lumps of lead, copper ore, &c.,

and looks promising for further improvement. With reference to the vertical slide observable in the open cutting on this lode, and which we are expecting to meet with in the level shortly, I would say upon my own practical experience, and that of the oldest miners here, that the powerful influence for good which these slides to fail in making large deposits of rich lead and copper ores, and the rich neighbouring mines bear testimony to that effect. The characteristics of the stratum and the slide are, in my opinion, everything that can be desired.

DE BROKE.—T. Hodge and Son, Nov. 9: Wilson's shaft is going down with and the slide are, in my opinion, everything that can be desired.

DE BROKE.—T. Hodge and Son, Nov. 9: Wilson's shaft is going down with all will about pay for stoping. We are making good progress in the adia cross-cut south towards Wilson's shaft, and hope to have it forth by the time the shaft gets will be subjected in the shaft gets and west of No. 2 shaft have not improved since our last; the present yield will about pay for stoping. We are making good progress in the adia cross-cut south towards Wilson's shaft, and hope to have it forth by the time the shaft gets machinery thosophout the mine is in good order, and working well. Our fast particle of ore will be shipped in the next boat for Bristol.

DEERPARK.—John Goldworthy, John Bucknell, Nov. 7: The cross-cut driving south from the bottom of the shaft is extended 9 ft.; the stratum is a compact clay-slate, interspersed with volling for forward or reaching the lode to meet with good results. Every effort is being brought to bear on this most important point. We regard the perpendicular bearing of the lode as being very favourable indeed. The machinery is in good order, and volves well.

DEN RIGHHSHIRE CONSOLIDATED.—I. well well will be done to the shaft of the particle will be shaded by the shaft of the shaft is carried to the shaft of the shaft is carried to the shaft of the shaded of such a nature not seen plefore. Apparently there are two

copper ore. Our present prospects of success we consider to be of an exceptionary good character.

EAST WHEAL GRENVILLE.—E. Hosking, Wm. Bennette, Nov. 7: Setting Report: To drive the 120, west of the engine-shaft, by six men, at 8t. per fathom; the lode is 18 in. wide, and worth 6t. per fathom. To drive the 120 cross-cut, north of the engine lode, by two men and one boy, at 7t. per fathom. To sink a winze below the 120, west of the engine-shaft, by four men, at 6t. per fathom; the lode is 2½ ft. wide, and worth 5t. per fathom. To rise above the 130 west, by two men, at 7t. per fathom; the lode is worth 5t. per fathom; the lode is 18 in. wide, and will produce 1 ton of copper ore per fathom. To drive the 110 cross-cut, south of the engine !-de, by four men, at 5t. per fathom. To stope below the 95, east of cross-course, by two men, at 3t. 10s. per fathom. To stope below the 95, east of cross-course, by two men, at 3t. 10s. per fathom; the lode is 2ft. wide, and worth for the and copper ores 7t. per fathom.

EAST WHEAL GRENVILLE.—E. Hosking, W. Bennetts, Nov. 12: There is no change since our setting report.

course, by two men, at 32. 10s. per fathom; the lode is 2 ft. wide, and worth for tin and copper ores 71. Per fathom.

EAST WHEAL GRENVILLE.—E. Hosking, W. Bennetts, Nov. 12: There is no change since our setting report.

EAST WHEAL LOVELL—R. Quentrall, Nov. 11: Fatwork: As mentioned in the report at the meeting the tin ground has taken a more westernly dip, and we have been sinking further west, where the lode is from 10 to 12 ft. wide, producing some rich work for tin, and improving as we sink.—Tregonebris: In the 34, driving cast of new engine-shaft, the lode is looking very well, and worth from 251. to 300, per fathom. We have holed the adit to the old workings westward, and as far as seen the lode is taken away to the water level. The former workers must evidently have had a large quantity of tin here, and we shall continue the adit westward to take up the water and clean up the old workings as soon as possible.

FLORENGE CONSOLS (Tin).—P. Skewis, Nov. 10: We have had to suspend working at the Chiverton shaft as the water from the heavy rains was rising into the 16 fm. level from surface, but we have an old level at the 40 extending to within 23 fms. of where we were at work at Chiverton, and we think this will pay us to drive it on under the Chiverton 15 fm. level, and are now pushing this forward fast so as to drain it; this will give us good backs for stoping. As the ends at Chiverton are worth about 28 lbs. of tin to the ton of the lode, which is about 3 feet wide, we are still picking out good stones of tin, and have put the men to break more of the tin that is in the bottom of the 66, from which we have had such splendid samples. The ends down to the Trevain Mine are looking very good for tin. The shaftmen have made a beginning to sink Eliza's shaft to the 86 from the 70 km lander of the 10 km lander lander of the 10 km lander of the 10 km lander of the 10 km land

the 128 west is looking very promising, and producing saving work for copper on. In the 116 west we have intersected the lode west of the cross-course, which is 1/5 ft. wide, and worth 7.per fathorn. We think, as we get off from the cross-course the lode will make larger and become more producive. We sampled on HINGSTON DOWN CONSOLS—J. Richards, Nov. 12: Bailey's winze, on the 150 west the lode is 4 ft. wide, composed of mundic, capel, quartz, peach, and a little of both copper and tin ores. In the 150 west, east of Cocking's winze, on the north part of the lode, the lode is 4 ft. wide, and is improved, being at present worth fully 26. per fathorn. In the ries in the back of the 140 west, gainst Fitzer worth fully 26. per fathorn. In the 150 west, east of Cocking's winze, on the north part of the lode, the lode is 4 ft. wide, composed of capel, peach, mure is no alternation, the lode being still 3 ft. wide, composed of capel, peach, mure is no alternation, the lode being still 3 ft. wide, composed of capel, peach, mure is no alternation, the lode being still 3 ft. wide, of the lode of the 120 west is worth 260, per lathorn. In Brewer's winze, sinking below the 110 west, the lode is 35 ft. wide, and a little copper ore. The lode in the stope in the bottom of the 110 west is worth 167, per fathorn. In the 110 west the lode is 35 ft. wide, and worth 167, per fathorn.

— Telegram.—Jas. Richards, Nov. 12: There has been an important improvement. The 106, east of the winze, has also improved, and is now worth more than 12 ft. with the peach of the stope in the bottom of the 110 west, a fine lode, worth 307, per fathorn, and promising further improvement. The 106, east of the winze, has also improved, and is now worth more substituted to the stope of the long of the long

60. per fathom. On Saturday last (our setting day) we set 5 cross-cuts to drive at different levels to intersect other lodes, and which we hope will be attended with gratifying results.

NEW ROSEWARNE.—E. Hosking, W. Bennetts, Nov. 7: The lode in the 67, west of Pool's shaft, is 3 ft. wide, composed of peach, quartz, mundic, and a little tin. The lode in the rise above the 58, west of Pool's shaft, is looking kindly, and is worth 72. per fathom. The winze below the 46, west of Pool's shaft, is yielding a little copper ore and saving work for tin.

NEW SOUTH MERLLYN.—R. Rowlands, Nov. 12: We have a rib of spar about 10 in. wide coming in in the back of the level, which promises well for a forourable change in the ground. I have placed two men to rise in the roof of the level to strip the lead down: also two on tribute.

NORTH HENDRE.—J. Lean, Nov. 12: The ground in the north level is at present in a disordered state, and the lode does not produce so much lead as when last reported on. We shall push on to get through this ground, when I have not the least doubt the lode will resume its former productiveness. In the south level no particular change has taken place; the lode is exceedingly strong and masterly, producing 2 tons of lead per fathom. We have driven about 9 yards west on the discovery at No. 1 east level; the lode is now worth 1½ ton per fathom. The trial level going out of No. 2 east has been extended 8 yds. 1 ft. 6 in. The yield of ore from this point has been rather irregular, sometimes producing as much as 3 tons 10 cwts. per fathom; its bearing is 45° west of south, therefore we have a good piece of unexplored virgin ground before us, and the end will now turn out 2 tons of lead per fathom. Opposite to where this level strikes out we have an other trial going on, and are getting some good lumps of ore; but as we have only driven 2 yards we cannot give a definite opinion of what it will eventually lead to. The lode in the No. 2 west level continues rather small and poor, but oday another small cavit

tions of a favourable change. Our engine for the western shaft has not yet armee, but I expect it shortly.

NORTH TRESKERBY.—Richard Pryor, Nov. 10: There has not been any change in the cross-cut driving north of new shaft, at the deep adit, since our setting report of last week. The tributers on the copper, as well as those on the tin lode, are breaking some good ores. We shall soon have a parcel of copper ore as well as those on the copper and well as the for sale.

which we shall posh on with all speed. The north end at the 49 is looking very a FPREE HILL—W. Delay, Nov. 12: No. 15, North Lodes in the clearing the mile way level south, on the cross course, we have reached the end of the ancient working the state of the course of

very in winze), a winze), a and I hot as and I hot as and I hot as a like the other was lode works old works old works old works will take will take will take to a like the same at 10t, per at 1 

fathem. In the 47 west end the lode (north) is worth 60, per fathom.—Trevena's: In the 47 east the branches (carbona) are worth 80, per fathom.—Critically's: In the 50 themselves are considered to the second of t

ducing some good tinstone. In the 72 cross-cut, driving south of the engine-shaft, we have cut in the lode about 2 ft.; so far as seen it is a fine-looking lode, composed of spar, mundic, peach, and tin.

St. DAYID'S (Holywell).—J Jones, Nov. 11: I have been so busy and weather so very bolsterous, as to prevent me sending report to-day. Shall sell 5 tons of ore (our first sale) to-morrow at the Holywell ticketing.

St. JUST AMALGAMATED.—Richard Pryor and Son, Wm. Bawden, Thomas Richards, Nov. 10: On Saturday last we set the following bargains:—Saveall's engine-shaft to sink below the 120 by six men and three boys, at 172, per fathom; the lode is 5 ft. wide, producing saving work for tin, with a good appearance. The 120 to drive west of engine-shaft, by aix men, at 71. 10s. per fathom; the lode is 2½ ft. wide, worth 15ℓ, per fathom. At this point, judging from indications, we have every reason to expect a further improvement in the value of the lode shortly. The 110 to drive west of engine-shaft, by eight men, at 6ℓ, per fathom; the lode is worth fully 20ℓ. Per fathom. We also set 43 tribute pitches at various places throughout the mine is in fair working condition.

St. LaWRENCE.—Nov. 12: The lode in the 59 yard level, driving west of the new shaft, is producing some fine lumps of ore, and looking promising. I have not yet been able to get ladders to put in the swallow, so that I cannot say anything more about its depth than before; I cannot put a line down as it catches on a tep in the footwall of the 52 yard level yesterday. The lode is about a yard wide, of a promising appearance.

TAN-YR-ALLT (Cardiganshire).—John Davis, Nov. 12: The 12 south end con-

not yet been able to get ladders to put in the swallow, so that I cannot say anything more about its depth than before; I cannot put a line down as it catches on a step in the footwall of the swallow, but it is a great depth. We got a few small imps of ore from the end of the 52 yard level yesterday. The lode is about a yard wide, of a promising appearance wide, of a promising appearance and we have now driven 7 fms. from the winze TAN-YR-ALLT (Cardiganshiro).—John Davis, Nov. 12: The 12 south end continues in a rich course of ore, and we have now driven 7 fms. from the winze TAN-YR-ALLT (Cardiganshiro).—John Davis, Nov. 12: The 12 south end continues in a rich course of ore, and we have now driven 7 fms. from the winze the driving north has come into very hard ground, and the lode has improved in consequence, and ontains a rib of silver-lead ore about 2½ fm. solid, but as the lode appears to be opening I hope this will improve, We have had a fine discovery in the new winze (which is being sunk 30 fms. further south than the No. 2 winze), as in sinking we cut this week a splendid course of ore 4 fms. below adit, and Inpol has been winze (which is being sunk 30 fms. further south than the No. 2 winze), as in sinking we cut this week a splendid course of ore 4 fms. below adit, and Inpol has long. When we have got down to 12 fms. deep we shall draw back to meet the other level. The men are continuing the cross-cut out to cut the east and west lode, which they will do 20 fms. from surface, and immediately below the old workings on the hill, from which a good deal of tin was sold. We intended to commence a cross-cut in the western portion of the mine near the carpenter's house, when the surface and the surface will be completed this week in time for pay.

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line a very strong lode herr, but having only reached the wall and bored 1 ft. Into vater shows itself through the borer hole. The stope in the 10s, west of shaft, by four men, at 15s per fathom, the stope in the back of the per stope in the pe

130s.; the lode is strong and masterly, and yielding good stones of lead, but not enough to value.

WHEAL GRENVILLE,—E. Hosking, W. Bennetts, Nov. 7: Setting Report: The 160 to drive north through the lode by nine men, at 20% per fathom; the lode is worth 35%, per fathom. The 150 to drive east and west of cross-cut, by eight men, at 12% per fathom: the lode in each end is worth 15% per fathom. To stope below the 149, east of winze, by four men, at 6s. 8d. per ton; the lode is worth 12% per fathom. The 140 to drive east of cross-cut, by four men, at 17% per fm.; the lode is worth 8% per fathom. To stope above the 140, east of cross-cut, by six men, at 6s. per ton; the lode is worth 15% per fathom. To stope above the 140, east and west of rise, by eight men, at 6s. per ton; the lode is worth 16% per fm. To drive the 130 cross-cut north of new shaft, by six men, at 11% per fathom; the ground in this end is much easier, and we are meeting with small branches of tin. 70 drive the 130 cross-cut north of north shaft, by six men, at 14% per fathom. To drive the 130 cast of north shaft, on old lode, by two men, at 6% per fathom. To drive the 130 cast of north shaft, on old lode, by two men, at 6% per fathom. To drive the 130 cast of north shaft, on old lode, by two men, at 6% per fathom. To six worth 9% per fathom. To rise above the 120, east of north shaft, by four men, at 2% per fathom; the lode is worth 9% per fathom. To sink a winze below the 110 cast by four men, at 7% per fathom the lode is 25% ft. wide, worth 12% per fathom. The lode is worth 9% per fathom that the lode is 25% ft. wide, worth 12% per fathom. The lode is worth 9% per fathom that per fathom the lode is worth 9% per fathom that per fathom the lode is 25% ft. wide, worth 12% per fathom. There is no other change, except that the ground in the 130 cross-cuts is getting more favourable. WHEAL GRENVILLE—E. Hosking, W. Bennetts, Nov. 12: In the 160 cross out the bottom of the end is in the lode about 3 fms, and we do not yet see any signs of the north wal ough to value.

WHEAL GRENVILLE.—E. Hosking, W. Bennetts, Nov. 7: Setting Report

arge and rich deposits of minerals in depth, but will enable us to lay open other parallel lodes of equal value which run through the entire length of the sett; and, no doubt, as I have before stated in my former reports, that as the lodes in the above property are developed they will open up far richer, and more remunerative to the shareholders than they ever have been.

WHEAL PRUSSIA.—W. Tregay, Nov. 12: There is no particular change to record since last report. The sinking under the 30 being worth 4%, per cubic fathom, and in the 30 end west 20. per fathom.

WHEAL RUSSELL.—J. Bray, Nov. 12: The lode in the 25 fm. level is 4ft. wide, with stones of ore, but not enough to value. The lode in the stope above this level is worth 20%, per fathom. The lode in the rise above the 26 is worth 12%, per fathom. There is no improvement in the 40 or in the rise above the 40 fm. level. The lode in the stopes is looking well. We sampled last mouth 105 tons; this month we shall sample 100 tons.

WHEAL UNY.—W. Rich, M. Rogers, W. Rich, jun., Nov. 7: The lode in the 40, west of Incline shaft, has been disordered by a small cross-course, but beyond this the lode is again improving, and is now worth 8%, per fathom. The 100, east of King's, is worth 10. per fm. The 110 east is worth 12%, per fathom. The 130 end east is worth 12%, per fathom. The 140 east is worth 16%, per fathom. The 130 end east is worth 12%, per fathom. The 140 east is worth 10%, per fathom. The 150 east is poor, but letting out more water. The rise in the 150 west carries a little tin. The 160 west is unproductive. The 160 east is worth 12%, per fathom. The 130 east is worth 12%, per fathom. The 140 east is worth 12% per fathom. The 140 east of Incline shaft, is worth 10% per fathom. The 130 east is worth 10%, per fathom. The 140 east of Incline shaft, is worth 10% per fathom. The 130 east is worth 10% per fathom. The 140 east of Incline shaft, is worth 10% per fathom. The 150 east is worth 10% per fathom. The 140 east is worth 10% per fathom. The 150 east is

we snan proceed to clear up the blende for a sampling of (say) 30 tons, the week following.

WHITEHAVEN IRON.—T. Rosewarne, Nov. 11: The lode in the new drift is a little improved; the stone which I mentioned in my last is wearing out, and the vein of ore is making better on the footwall part of the lode. The lode in No. 3 drift is fully 8 ft. wide, and showing a very kindly appearance for making ore shortly. No. 4 drift is worked by six men, and we are pushing on as fast as possible to get in under the point in No. 3 drift above, where the old men had a very rich lode. No. 5 drift is worked by six men, and we are pushing on as rapidly as possible; the lode is still improving. I have taken a sample of ore from here this week, to have it analysed. The stopes are all looking well. No change in any other part of the mine to notice. Daymen are now busily engaged in extending the incline road down to meet the railway.

#### MINING IN CARDIGANSHIRE.

We understand that a company is in course of formation with a view to making preliminary trials on one or two promising mines in this district. It seems unaccountable that the investing public should go to foreign countries with their capital when such a splendid sold for contraction of the contra did field for enterprise exists in the Cardiganshire lead mines. Let us look for a moment at past results. To refer to Sir Hugh Middleton is but to repeat an oft-told tale, and, indeed, if all the mines which claim their origin from that grand old miner were to be described we should have to issue a special Supplement; but when we remember Goginan, the Darrens, Cwmystwith, Cwm Erfin, Frongoch, Cwmsymlog, Esgair-hir, &c., old mines which have yielded millions of pounds sterling in minerals; when we consider, too, the shallow depth to which even the oldest of them has been worked, we are depth to which even the oldest of them has been worked, we are astonished that so little should be doing, but we are not at a loss to account for the public apathy. Our correspondents, "A. C. H." and "J. B.," have hit the right nail on the head. Mines, good, bad, and indifferent, are brought into the market, and the vendors are to be paid enormous sums, in many instances where the only expenses incurred have been advertisements, brokers' and law expenses; indeed, the newest fashion appears to be merely to state the capital without saying how much is to be applied for the working of the mine, or what the purchase is to be at all. What is the result? If, by an extraordinary piece of luck, a good course of ore is cut, the investors whose money discovered it find themselves swamped by the vendors' shares, and any profits are like the "barley loaves and fishes," "what is that among so many?" On the other hand, if a rich discovery is not made at once, there is the old cry of "more capital; cowardly to give up the mine;" then it is discovered that the vendor has had the lion's share of the capital, mayhap has disposed of his shares, which even if he holds are all fully paid-up. He contributes nothing to raise "more capital." contributes nothing to raise "more capital."

contributes nothing to raise "more capital."

Investors in mines must not run away with the idea that even in the best of mines that they can put down a shilling and take up a pound. Mining requires time; the richest course of ore that ever was cut cannot be taken away, and economically, without time and money. Neither must investors be deluded by sales of ore. We frequently see, shortly after a company is formed, a sale of ore, 20, 30, 40, or 50 tons, as the case may be, but it should be borne in mind that this ore (let us say) has been carefully hoarded up for months by the yender—we do not cart ore from other mines in this country; our

this ore (let us say) has been carefully hoarded up for months by the vendor—we do not cart ore from other mines in this country; our enterprise in that respect is confined to a few specimens for London offices—with a view to this very sale, by means of which he hopes to slip out a few of his fully paid-up shares.

If mining in Cardiganshire is ever to hold up its head it must be by the introduction of an entirely new method of transacting business. Let us have more moderate capital, and more of it applied to working the mine. Let us see vendors taking all the payment in paid-up shares. Let us see less brokers and more miners about the mines. Let us see thoroughly trustworthy agents employed, and not men who require two or three directors and a secretary, expenses paid) down every two or three months to look after them, and do not let us be always dragging in poor Sir Hugh Middleton's name to show what can be done in Cardiganshire. Lee us point to present and substantial results; let dividends be paid when they are earned, not before. Let ore be sold when it is broke, not before, and we are mistaken if we shall not find the public as anxious to invest in lead as in coal—as glad to send their money to Cardiganinvest in lead as in coal—as glad to send their money to Cardigan-

#### KINGSTON VALLEY LEAD MINE.

We last week printed a report from Capt. Rodda, giving a most a report from capt. Rodda, giving a most favourable account of this mine, and we now have pleasure in giving a report by Mr. James Richards, of the Devon Great Consols. Mr. Richards' great experience and knowledge of mining, make this re-port all the more valuable as to the capabilities of Kingston Valley

port all the more valuable as to the capabilities of Kingston Valley Mine:—

Devon Great Consols, Oct. 28.—By your permission, I last week inspected this mine, and it affords me great pleasure to state that I was most favourably impressed with the masterly appearance and great strength of the lode throughout the whole of the workings. It, undoubtedly, possesses the true features of a great lead-bearing lode, being rich in silver, and strongly intermixed with a large quantity of gossan, carrying also an abundance of capel, and a large proportion of carbonator of lead, forming altogether great strength and durability of character. A large and valuable lode has gone down in the bottom of the adit level, and in the 18, below the deepest point reached, an important improvement has taken place, such as I have rarely or ever seen in the early stages of development of any mine. The produce of silver lead, carbonate of lead, and blende ores from the present workings is considerable, as may be viewed at the surface; and the lode in the present end, and in the rise in the back of the 18, will yield large quantities of lead and blende ores. On a previous occasion I was very much struck with the appearance of the dath surface, and the remarkably congenial nature of the country through which the shaft was then being sunk, as well as with the flookan courses and the large cross-course coming in contact with the lode, and these indications having already led to the actual discovery of a course of silver lead, I have no hesitation whatever in expressing my opinion that the extension of the workings will lead to the laying open of a great mine.

CORNISH MINE SHARE MARKET .- During the week the share CORNISH MINE SHARE MARKET.—During the Week the share market has continued frm with a good demand for most shares. Prices generally have been strengthening, and stock has been scarce on the market. Tin seems to be gradually advancing. Straits is now bringing 94/4, Australian 93/24., 94/4, Buto be gradually advancing. Straits is now bringing 94/4, Australian 93/24., 94/4, Buto 100/4, and English ingots 100/. The following are the closing prices:—Carn Breas have not been so much dealt in as some other shares, price about as swine as last week.—55, 57. Cook's Kitchens have-been rather more enquired for at about 9.94. Dolcoaths largely dealt in, and advanced to 48, 50, at which they close. East Postares, in absence of business, are called 7½, 8; East Lovels nothing doing, called 10, 11: Providence, 4½, 5½; South Conductows, 3½, 3½; South Croftys, 8, 9; South Frances since the meeting are 11½, 12½; the 4. call paid. St. Ives Consols, 3d., on Marbella; 4d., 6d., on Monkland ordinary; 1s., 1s. 3d., 1s. 6d., 1s. 4½d., 1s. 6d., on Tharsis; 1s. 3d. on Tharsis new; 3d. on Young's Paraffin; 0 moa and Cleland were even.—Backwardations: 3d., 2d., on Merry and Cuninghame; and 6s. 3d, on Shotts. The changes in these rates, compared those of last contango day, are very slight, and (beyond that the contango on Glasgow Caradon shares is now more in favour of buyers, showing that the account for the rise in these shares is now, probably, in better hands) do not call for note. The making-up-prices show a rise of 1s. 6d. on Canadian Copper Pyrites, 2s. 6d. on Glasgow Caradon, 6d. on Huntington, 8s. 9d. on Marbella, and 4s. on Monkland ordinary; a fall of 1s. on Emma, 2s. on Port Washington, and 1s. on Omoa and Cleland. Merry and Cuninghume and Young's Paraffin are unaltered. Tharsis at 26¼, and the new shares at 18¼ (comparing with 2½ and 18%) appear 1l. and 12s. 61. respectively lower, but it must be kept in mind that since last contango day the interim dividends of 25s. and 17s. 6d. have been paid, so that the shares are both about ½ higher for the account.

Wednesday the business done was smaller, but prices still keep On Wednesday the business done was smaller, but prices still keep steady. The account for settlement Nov. 30 opened to day: Thursday, Nov. 26, will be cantango day. Benhar, 14% to 14%; Bolckow, Vaughan, A. done at 55½; Canadian Copper Pyrites firm, at 52s. to 52s. 6d.; Ebbws done at 22, closing 22 to 22%; Glasgow Caradon firmer, at 3-2s. 6d. to 33s. 6d.; Islay Lead lower, at 3-16ths to 7-16ths; Javall, 4s. 3d. to 4s. 9d, but offered at 4s. 6d. for cash: Marbella again in demand, at from 6f. to 12s., closing good at 61-16th to 6½; Metry and Cuninghame firmer, done at 71s., closing 71s. to 72s.; Monkland ordinary done at 92s. and 98s. 6d., closing 91s. 6d. to 92s. 6d.; Niddrie changed hands at 51s.; Panuncillo firmer, at ½ to 1; Tharsis were again in demand, and were done at from 26% to 27%, closing 27½ to 27%; new shares have improved, but are still relatively the cheaper, at 18½ to 19. Scottish Australian firm, at 1½ to 1½; the half-yearly report has been issued recommending a dividend at the rate of 15 per cent. per annum, leaving 1923. to be carried forward. Young's Paraffin unchanged, at 5% to 5%. Subjoined will be found the latest prices:—

COAL TRON STEEL

	mm e. 10.0		A		COAL, IRON, STEEL.	Latest
Amount Amount fshare. paid up.			Name.	price.		
	£10		paid i	130.	Arniston Coal (Limited)	4
	10	***	2.0	1.0.1	D-ban Coal (Timited)	1436
	100	***	40.00	000	Bolckow, Vaughan, and Co. (Limited)A.	851/2
	10	***		***	Cairntable Gas Cosl (Limited)	536
	10	***	10	***		6
	32		29	***	Ebbw Vale Steel, Iron, and Coal (Limited)	221/6
	10	000	- 9	***	Fife Coal (Limited)	514
	10	***	7	***	Cit Best Washington Inon and Coul (Timited)	71s.
	10		10		Ditto All paid	634
	10	4+0	10	***	Lochore and Capledrae (Limited)	8
	10	110	10		Manhalla Inon One (Limited)	122s.
	10	***		16		710.
	10	***	10	78	Ditto All paid	10
	10		10		Monkland Iron and Coal (Limited)	928.
	10	***	10	***	Ditto 7 per cent. Guaranteed Preference.	81/4
	100	***	100		North of Ole and Plaine Transporte and (Limited)	473/2
	10	***	2	***	Widdele Cool (Timited)	51s.
	10		4	***	Omoa and Cleland Iron and Coal (Limited)	62s.
	1		ī		Scottish Australian Mining (Limited)	156
	î	***	Su.		Ditto New	3/8
	50	***	50		Ob -AAn Tuom	78%
	10	***	4	***	Ditto New, issued at 21/2 premium	6
		***	-		COPPER, LEAD, SULPHUR, TIN.	
			-			*o-
	10		. 7		Canadian Copper Pyrites (Limited)	52s.
	10	449	10		Ditto All paid	614
	10	***	7		Cape Copper (Limited)	29
	1		1		Cwm Bychan Silver-Lead (Limited)	18s.
	1		1		Cwm Lery Lead (Limited)	
	.5	***	- 5		Drake Walls Tin and Copper	5
	2	***	3	***	Dunsley Wheal Phoenix Tin (Limited)	25 34
	-		25		East Black Craig Lead (Limited)	
	1	0.00	1		Glasgow Caradon Copper Mining (Limited)	334.
	1	***	150.		Ditto New	218, 60.
	2.0		5	К	Gunnislake (Clitters)	13% 59s.
	10	***	9		Huntington Copper and Sulphur (Limited)	
	1	***	1	* * *	Islay Lead (Limited)	34
	25s.	000	238.	***	Panulcillo Copper Mining (Limited)	29
	4	000	9			.34
	10	***			Rio Tinto (Limited) Russian Copper Mining (Limited)	81/4 21/4
	10	0.0	10	*11	Tharsis Copper and Sulphur (Limited)	271/4
	10	100	10		Ditto New	1834
	10	0.00	7	***	West Maria and Fortescue	34
	1	* * *	89s.	***	Yorke Peninsula Mining (Limited)	36
		***			Ditto 15 per cent. Guaranteed Preference	34
	1	000	Бв.	***		74
					GOLD, SILVER.	
	5		5	***	Colorado Terrible Mining (Limited)	31/4
	20	***	20	***	Emma Silver Mining (Limited)	24s.
	10	***	10	***	Flagstaff Silver Mining (Limited)	15%
	2	***	2	9.00	Javali Gold Mine (Limited)	34
	5		5	***	Last Chance Silver Mining (Limited)	1
					OIL.	1
	10		7		Dalmeny Oil (Limited)	5%
	5	***	6	***	Midlothian Mineral Oil (Limited)	3
	10	***	8		Uphall Mineral Oil (Limited)	5
	10	***	10	***	West Calder Oil (Limited)	736
	10	***		6	West Calder Oil (Limited)	51/8
		493	07			./0
					MISCELLANEOUS.	
	10		10		Conglog Slate and Slab (Limited)	103/4
	10		10	***	Highland Peat Fuel (Limited)	10
	50		25	***	London & Glasgow Engineering & Iron Shipbuilding	21
	1		1		North Cornwall Kaolin (Limited)	1%
	20			6	Peruvian Nitrate (Limited)	5
	10	100	10		Scottish Wagon Company (Limited)	121/8
	10	***	1	590	Ditto New	22s.
			Last	day	for this account Nov. 26 - settling day. Nov. 30	

Last day for this account Nov. 26; settling day, Nov. 30, NOTE.—The above list of mines and auxiliary associations is as full as can be ascertained, Scotch companies only being inserted, or those in which Scotch in restors are interested. In the event of any being omitted, and parties desiring a quotation for them and such information as can be ascertained from time to time to be inserted in this list, they will be good enough to communicate the name of he company with any other particulars as full as possible.

J. GRANT MACLEAN, Stock and Share Broker Post Office Buildings, Stirling, Nov. 12.

#### TRADE OF THE TYNE AND WEAR.

Nov. 12.—The trade is pretty active for most kinds of first-class coal; the demand for house is good, in anticipation of a winter decoal; the demand for house is good, in anticipation of a winter demand, and prices are firm at about 16s, per ton for best coal. The export trade for steam coal is, of course, very limited, and considerable stocks will be laid up during the winter months. Large shipments have been made during the past week both on the Tyne and Wear, especially of gas coal, for which there is a very strong enquiry, and prices are likely to improve. The coal and coke trades in South Durham are very dull; the quantity sent into the iron-making districts has fallen off considerably, and is still falling off. Good progress is making with the extensive new winnings at Whitley. Good progress is making with the extensive new winnings at Whitley, and also at Shire Moor and various other places. Of course, a great number of extensive winnings in this district and Northumberland and Durham will come into operation soon, when a large quantity of coal of various kinds will be brought into the market. Sir Geo. Elliot, M.P. for North Durham, has been on a tour partly

for the purpose of inspecting mining properties abroad. In com-pany with several foreign engineers and gentlemen he has visited the valuable mining districts situated at the base of Mount Amiata, in the remote mountains of Tuscany. Sir George subsequently visited the Island of Elba, and inspected the rich iron deposits at Rio Marina. Leaving Elba, Sir George landed at Spezzia, when he was honoured with an interview with M. Thiers.

The iron trade continues brisk in some branches, but the rail trade is extremely bad. At Middlesborough, on Tuesday, there was a good attendance, and there were numeous enquiries for pig-iron, both for, early delivery and for next year's account. The quotations remain the same as last week, but the market is decidedly firmer. No. 1, the same as last week, but the market is decidedly firmer. No. 1, 70s., to 58s. for No. 4. For next year business is being done at 62s. 6d. for No. 3, but buyers are extremely cautious about buying for forward delivery. The shipments, foreign and to Scotland, have been large lately, but they will now fall off rapidly. There is no better movement in the rail trade, although 7t. 10s. is quoted, local manufacturers are unable to find sufficient employment, and many men are being paid off. The iron shipbuilding trade is not expected to be very active during the winter. The bar trade is somewhat more quiet, but quotations are not altered. Ship-plates are 9t. 7s. 6d to 9t. 12s. 6d.

met his death very suddenly at a comparatively early age, leaving his family en-tirely unprovided for. Already some 750% has been collected. It was proposed that Messrs. Kenmir and Bunning should have the disposition of the funds at their dis-cretion for the benefit of the lamily. These gentlemen will be glad to receive sub-scriptions.

cretion for the benefit of the lamily. These gentlemen will be glad to receive subscriptions.

The friends of Mr. P. W. Pickup, manager of New Copley Colliery, who is now leaving to take charge of the Dunkenhalgh Collieries, Accington, near Burnley, Lameashire, as mining engineer, as a testimonial of their esteem have presented him with a valuable gold watch and albert, supplied by Lister and Son, Newcastle on-Tyne. The chair was to keep by Mr. R. Thompson, mining engineer, South Wingate; the vice was filled by Mr. A. Metcalf, manager of Woodland Collieries.

A new commercial association has just been incorporated under the Companies Act, with the title of the Henshaw and Melkridge Collieries Company (Limited), Northumberland, with a capital of 20,000/., in 4000 shares of 51, each, for the purpose of acquiring from the present proprietors their interests in a lease of coal in the manors of Henshaw and Melkridge, in the county of Northumberland. The property consists of the coal under about 2500 acres of land, with moderate rents and royalties, payable to Sir Edward Blackett, and held by a lease for 21 years. A seam of from 3ft. 2 in. to 2ft. 6 in. is believed to exist under the entire area, and it is proposed to work this in places by means of a drift. The Newcastle and Carlisle Railway runs through the entire coal field, and facility for carrying the produce of the mine to market is thus already provided.

#### REPORT FROM NORTH AND SOUTH STAFFORDSHIRE.

Nov. 12.—The South Staffordshire Iron Trade is a degree steadier this week in the pig department, but there is not much improvement in the demand for finished iron. Manufacturers of common cinder pig are quoting 3l. 5s. to 3l. 7s. 6d.; and all-mine (hot air) pigs range from 5l. to 5l. 10s. per ton, according to brand. Two more furnaces have been put into operation by the Darlaston Steel and Iron Company (Limited), and a third will shortly be blowing. The total number in blast will thus be raised to 77, as against 94 at the corresponding period of last year. Nearly all the South Staffordshire blast-furnaces now in operation are on the "closed top" system, by which is secured great economy in the consumption of fuel. It is this fact which partially explains the diminished demand for slack, which has become almost a drug upon the market. Finished iron of the best qualities maintains a steady though not a very brisk enquiry, and prices are well supported by the leading firms on the basis of 10l. 10s. to 11l. for marked bars, with the usual extras for Earl Dudley's and Mesers. J. Bradley and Co.'s makes. Common iron is in restricted demand, and there is some irregularity in selling prices. Bars are offering at 9l. 10s. per ton, and the competion for orders is considerable even at this low figure. Local agents of Welsh firms are quoting bars as low as 8l. 15s. per ton. Sheets and plates are depressed, Cleveland and other North Country centres of the trade being keen competitors for the last-named class of iron. A stady colonial demand is avagained for galvanised Nov. 12.—The South Staffordshire Iron Trade is a degree steadier Sheets and plates are depressed, Cleveland and other North Country centres of the trade being keen competitors for the last-named class of iron. A steady colonial demand is experienced for galvanised sheets for roofing and such like purposes. Corrugated roofing sheets (20 guage) are quoted 20% 10s. per ton, free on board. Tin-plates (f.o.b.) are as follows per box.—Osier bed best charcoal, 37s. 6d; H.F. crown charcoal, 36s; ditto S. coke, 29s.; M.F. best charcoal, 39s.; crown "Talbot" charcoal, 36s. 6d.; and R.K.P. coke, 27s. 6d. The South Staffordshire Coal Trade is without much improvement as regards the common classes of fuel, but for the best Thick coal of the Cannock Chase a steadier

the Dudley district, and the Deep coal of the Cannock Chase, a steadier demand is experienced, and selling prices begin to show somewhat greater uniformity. Slack is in quiet demand throughout the district, and quotations are very irregular. Ironstones are in steady request, at 20s. to 21s. for white and gubbin.

The South Staffordshire Mines Examination Board, under the new

The South Staffordshire Mines Examination Board, under the new Act, has been discharged by the Home Secretary, owing, it is commonly reported, to want of agreement between the members. The board consists of Messrs. J. P. Baker (Government Inspector); W. Bassano, Rowley Regis; J. Brown, Hednesford; and W. Blakemore, of Heathtown, who acted as secretary. The Home Secretary invites nominations of gentlemen qualified to serve on the new board.

To-day quotations on the Birmingham Stock Exchange include the following:—Sandwell Park Colliery, 36; Pelsall Coal and Iron, 1\frac{3}{4} dis.; Ivy House and Northwood Colliery, \frac{1}{2} dis.; Cannock and Huntington Colliery, \frac{1}{2} dis.; Cannock and Huntington Colliery, \frac{1}{2} dis.; Cannock and Huntington Colliery, \frac{1}{2} dis.; Cannock and Bolt Company, 3 prem.; Staffordshire Wheel and Axle, 2\frac{1}{2} premium; Birmingham Wagon (10\text{\text{\$\text{ol}\$}, 17\frac{3}{2}; Gloucester Wagon (10\text{\text{\$\text{elouty}}}, 15; and Oldbury Carriage (5\text{\text{\$\text{\$\text{\$\text{ol}\$}}} dis.)

The North Staffordshire Iron Trade does not show much change from our last report. Common bars are 2s. 6d. per ton easier, with a somewhat restricted current demand. The mills are, however, fairly engaged, especially in the heavy bar department. Plate iron

fairly engaged, especially in the heavy bar department. Plate iron is in sluggish demand, and some of the mills are only in partial operation. The pig-iron trade is quiet, and stocks are rapidly in-

The competition of Belgian ironmasters is not now felt in any serious degree by makers in Staffordshire, certain modifications having lately been made in the price of Belgian iron, the lists having "extras" attached to them, which was not the case previously. Belgian bars, delivered on the Thames, are 84. 18s. for common, 94. 10s. for best, and 104. 2s. for best best of ordinary running sizes; but what the Belgian iromasters term "best" is not superior to what in Staffordshire is designated common iron, so that the diswhat in Staffordshire is designated common iron, so that the dif-ference in price is scarcely sufficient to tempt purchasers, especially considering the tardy delivery and the uncertainty as to quality, of

considering the tardy delivery and the uncertainty as to quality, of which so many English buyers of Belgian iron have had to complain.

The Board of Trade returns for October, which have just been issued, are, as far as regards the exports of iron and steel, much more satisfactory than they have been at any time during the last 18 months or more, for nearly than they have been at any time during the last 18 months or more, for nearly than they have been at any time during the last 18 months or more, for nearly than they have been at any time during the last 18 months or more, for nearly than they have been at any time during the last 18 months or more, for nearly than they have been at any time they and a state of the principal kinds manufactured in the midland districts—hoops, sheets, bars, angles, and plates—a much larger tonnage has been dispatched than in October, 1872 or 1873, and this bears out exactly the remarks that have been made as to the improvement in trade which has manifested itself for some time past, but more especially since the quarterly meeting, when prices were fixed, and foreign buyers were induced to come more freely into the market. From the number of orders which have been received lately, and from the way in which the works are now employed, we anticipate that the figures for the present month will be quite as favourable as they were for October, even though the navigation season virtually closes with the opening of this month. It must be very encouraging to manufacturers to note this improvement, after they have suffered so severely from the depression, and they may reasonably hope that, as the crisis is past, things will gradually mend.

Mr. Thomas F. Fisher, of the Whitehall Callieour West Parks.

pression, and they may reasonably hope that, as the crisis is past, things will gradually mend.

Mr. Thomas F. Fisher, of the Whitehall Colliery. West Bromwich, was fined 104, and costs for neglecting to ventilate a heading. It appeared that two men were at work, on June 23, at the back of a heading in the colliery of which the defendant was manager, and an explosion occurred, whereby both men were burnt. There was no ventilation whatever provided there for a distance of 24 yards, and probably if there had been the gas would have been cieared, and there would have been no explosion. For the defence it was urged that all reasonable means had been taken for the ventilation of the pit, which had been tried in the morning without sulphur being found, so that the accumulation was unexpected, and that it was a well-known fact that a thick coal rib and pillar pit was liable to be fired if too much air were allowed in it. The Bench did not quite agree with the defendant, considered that no effort whatever had been made to ventilate the pit, and thought they would not be doing their duty unless they imposed a fine of 104, and costs.

#### REPORT FROM DERBYSHIRE AND YORKSHIRE.

Nov. 12.—There has been no change whatever in the state of the Ano. 12.—There has been no change whatever in the state of the Iron Trade in North Derbyshire during the past week. The output of pig is increasing more than otherwise, and a good business is being done in manufactured iron. Bessemer steel is not in such good request as it has been, and quite recently the vast works of Cammell and Co., at Penistone, have been standing for several days.

UTILISING WASTE PRODUCTS.—Mr. W. McADAM, of Glasgow, has to be very active during the winter. The bar trade is somewhat more quiet, but quotations are not altered. Ship-plates are 9l. 7s. 6d to 9l. 12s. 6d.

NORTH OF ENGLAND INSTITUTE OF MINING AND MECHANICAL ENGINEERS.—At the monthly meeting of members on Saturday (Mr. William Cochrane, one of the Vice-Presidents, in the chair), thirty-six new members were elected, this being the highest number ever elected on one day. Mr. W. Galloway, Inspector of Mines, read a paper "On some Recent Experiments with Safety Lamps," illustrated by experiments, conducted by Prof. Manico. The conclusion at which the lecturer arrived created great interest amongst a large audience, and a vote of thanks was given to him by acclamation. A detailed account of these interesting experiments will be given in next week's Journal.

Mr. G. W. Southern.—A movement is being made in aid of the family of the late Mr. George William Southern, who was for many years Inspector of Mines for Northumberland and for the northern district of Durham, and who

#### THE IRON AND COAL KINGS OF THE NORTH.

VII .- JOSEPH WHITWELL PEASE, M.P.

The senior member for the southern division of the County of Durham has all his life long been mixed up, more or less prominently, with the iron and coal trades of the North of England, and is at the present moment the head of a firm that has, probably, larger mineral royalties and raises more coal than any other in that larger mineral royalties and raises more coal than any other in that important county. Itis father, Mr. Joseph Pease (who died some three years ago at Darlington), was the second son of Edw. Pease (the founder, along with George Stephenson, of the first passenger railway in England), and was known as the first Quaker member that ever entered the House of Commons. From his father Mr. J. W. Pease, as the eldest son, inherited a large patrimony, in the shape of collieries, ironstone mines, and a large interest in the world-famous engineering works of Robert Stephenson and Co., of Newcastle-on-Tyne, the same works that were founded by George Stephenson, and had the honour of turning out those now classical pro-

castle-on-Tyne, the same works that were founded by George Stephenson, and had the honour of turning out those now classical productions the "Rocket," to which a place has been assigned in the Kensington Museum; and "Locomotion," which has found a resting place, after many years of incessant toil, on a pedestal outside the first station of the first passenger railway in England—the station of the Stockton and Darlington Railway at the latter town.

The early career of the eldest son of the late Joseph Pease is so intimately bound up with that of his father that it is difficult to mark a definite point of divergence. In his youth Mr. J. W. Pease took an active share in the routine of his father's office at Darlington, and was trained to a knowledge, not only of colliery operations in the county of Durham, but also of the conditions affecting the ironstone mining of Cleveland. For many years previous to the decesse of his father, in 1872, he was the virtual head of the gigantic undertaking that is known by the dual name of Joseph Pease and Patners, and J. W. Pease and Co., the former being the designation of his father, in 1872, he was the virtual to Joseph Pease and Partaking that is known by the dual name of Joseph Pease and Partners, and J. W. Pease and Co., the former being the designation applied to the colliery operations of the firm, and the latter the title under which the extensive ironstone mines of the partnership are carried on. At the present time the firm bearing both of these titles consists of only four active partners, These are Mr. Joseph W. Pease, M.P., his two brothers, Arthur and Edward, and Mr David Dale. Its operations embrace the ironstone mines of Upleatham (the largest mines of their kind in the world), at Marske, in Clereland, Skiningrove, near Staithes, Tockett's, and Crag Hall; the colland, Skiningrove, near Staithes, Tockett's, and Crag Hall; the colland, Skiningrove, near Staithes, Tockett's, and Roddymoor—the latter (the largest mines of their kind in the world), at Marske, in Cleveland, Skiningrove, near Staithes, Tockett's, and Crag Hall; the collieries of Esh, Waterhouse, Adelaide, and Roddymoor—the latter including the Emma, the Job's Hill, the Bowden Close, the Stanley, the Wesley, the Brandon and the Sunniside nits: the manufacture of the Reader and the Sunniside nits:

lieries of Esh, Waterhouse, Adelaide, and Roddymoor—the latter including the Emma, the Job's Hill, the Bowden Close, the Stanley, the Wooley, the Brandon, and the Sunniside pits; the manufacture of fire-bricks and other allied commodities, and the ownership of the Middlesborough estate. Upon these different properties, in the order here indicated, we shall briefly speak.

The Upleatham ironstone mines were the next opened out in the Cleveland district after those of Bolckow and Vaughan at Eston. They were originally projected by the Derwent Iron Company (a concern that subsequently became merged in the Consett Iron Company), in whose hands, however, they did not prosper, and about 1854 they became the property of Mr. Joseph Pease, the father, Mr. J. W. Pease, the son, spoken of in our preceding remarks. These gentlemen had previously acquired a large and valuable interest in the Cleveland district, for about 1829 we find the father becoming the purchaser, along with Messrs. T. Richardson, H. Birkbeck, S. Martin, E. Pease, jun., and F. Gibson, of the land since known as the Middlesborough Estate, and including the greater part of the present site of the town of Middlesborough. In 1853 Mr. J. W. Pease began, along with his father, to open out the Hutton Lowcross, or Codhill Mines, near Guisborough, in Cleveland. At that time the whole district beyond Middlesborough was a terra incognito, and one of the first requirements of these new mines was adequate railway facilities. A company, promoted by the Messrs. nilo, and one of the first requirements of these new mines was adequate railway facilities. A company, promoted by the Messrs, Pease, was formed in 1851 for the construction of the Middlesborough Pease, was formed in 1831 for the construction of the Middlesborough and Guisborough Railway, with branches to Codhill and Roseberry Topping. This line was ultimately, and very soon after its projection, leased to Messrs. Pease, who guaranteed a settled dividend upon its operations, and from that time till the present it has been one of the most valuable feeders of the Darlington and Stoekton branch of the North-Eastern Railway, which, as our readers will be aware, is the most prosperous line in the country.

The Upleatham mines were gradually and largely developed by Mr. Pease and his partners, until they reached an annual production of some 600,000 tons of ironstone per annum, and employed over

of some 600,000 tons of ironstone per annum, and employed over 650 hands. At this rate of production they are still carried on. They are worked by drifts, and mechanical has recently been substituted for furnace ventilation. From first to last it is calculated that not less than 4,000,000 to 5,000,000 tons of iron ore have been reached from the University of the product of the state of the st vended from the Upleatham mines, and the royalty is sufficiently vended from the Upleatham mines, and the royalty is sufficiently large to allow of the present out-put of ore being continued for many years to come. When the British Association visited Newcastle, in 1863, a visit was arranged to these mines, under the personal direction of Mr. Pease; and again, in 1870, when the Mechauical Engineers visited Middlesborough an inspection of the Upleatham mines formed the most interesting part of their programme. The Skiningrove mines, belonging to the same firm, are situated near to the shores of the German Ocean, in the valley from which they take their name, and about 15 miles distance from Middlesborough. During the last three or four years the Skiningrove mines brough. During the last three or four years the Skiningrove mines have been developed at an extraordinarily rapid rate, so much so that when the plans for their extension now in progress shall have been completed their yield of ironstone will be about double what it has hitherto been. The Tocketts Mine, near Guisborough, is the most recently developed of all the mines owned by the firm, and has not yet reached the stage of vending ore, but it has been projected on a scale calculated to yield from 200,000 to 300,000 tons per jected on a scale calculated to yield from 200,000 to 300,000 tons per annum when at full work. As for the Crag Hall Mines—the last of the mines belonging to the Messrs. Pease in the Cleveland district—they were originally opened out, about four years ago, by the Saltburn Ironstone Company, of which Mr. Edward Robson, of Midlesborough, and Thomas Vaughan were partners; but at an early period of their operations they committed themselves to a contract to supply the Messrs. Pease with the whole of their ironstone, at a price which two years later (when the labour of getting a ton of ore had advanced from 9d. or 10d. to 1s. 4d., and other charges had gone up in proportion) was found to be ruinously low, and as the contract was one of long standing the mines were sold to the Messrs. Pease for really less than it cost to open them out, it being considered the standard of the standard of the mines were sold to the Messrs. Pease for really less than it cost to open them out, it being considered by both sides, when the nature of the contract was taken into account, that the mines were really worth more to the Messra-Pease than to anyone else. From the whole of their mines in Cleve-land the Messrs. Pease are now raising over 1,000,000 tons of ironstone per annum, being more than a sixth part of all the ore produced in the district, but provision is being made, in one way or another, for the nearly doubling this quantity. The whole of the ironstone raised by the Messrs. Pease is sold to other firms, who use it for smelting purposes, the firm with which Mr. J. W. Pease is connected having hitherto kept out of the pig-iron trade. It is worthy of note that one of the first considerations that actuated the present member for South Durham and his late father in becoming owners of ironstone mines was the great opportunities the present member for South Durham and his late latter to coming owners of ironstone mines was the great opportunities thereby afforded them of assisting other capitalists who might care to come and settle in the Cleveland district; but it is not too much to say that but for the inducements held out by the Messrs. Peasewhy. to say that but for the inducements held out by the Messrs. Pease's such as guaranteeing a regular supply of ironstone for a long series of years, at not more than 3s. 6d. per ton—the Cleveland district would not have been developed so rapidly as it has been. Such variangements as these have in not a few cases been detrimental to arrangements as these have in not a few cases been detrimental to arrangements as these than the bare cost of production; but with tons of ironstone at less than the bare cost of production; but what they lost in one way they gained in another, seeing that their railway and landed interests were promoted.

It is considered doubtful whether there are in the whole comby of Dupben larger and the way and landed in the second that their railway are the second to the second that the

of Durham larger coal and coke producers than Mr. J. W. Pease and his partners. There is, at any rate, only one other firm that can rival them in this distinction, and not more than one or two others can claim to come near them. The firm have acquired a large tract of the best part of the South Durham coal field, in three different

arts of that productive district. The Adelaide Colliery, near to Bishop Auckland, chiefly yields household coal of a very superior quality, and was acquired by the father of the present owner about the year 1830. The Roddymoor Collieries are situated near Crook, in the very heart of the coking coal district, and they yield about 1,50,000 tons of coal per annum, the greater portion of which is converted into coke; while the Esh and Waterhouse Collieries, in the Dearness Valley, are also largely productive of nonverted into coke; while the Esh and Waterhouse Collieries, in the Dearness Valley, are also largely productive of an excellent quality of coal, suitable for coking purposes. The Esh Collieries, in the newest of the number, having been opened out only about three and a half years ago. It is laid out in harmony with the most advanced knowledge and skill in the science of colliery engineering. Nearly the whole of the coal is converted into coke, in ovens constructed on a principle patented by the Messrs. Breckon and Dixon, whereby the coal is heated both from above and below, instead of, as in the case of the ordinary beehive oven, from above alone. Alto gether the Messrs. Pease produce from 600,000 to 700,000 tons of coke per annum. Most of this large quantity is used by the pigrion manufacturers of Tees-side, but for some years past a large quantity has been supplied to the Barrow Hematite Iron and Steel Company, under a contract of several years duration.

Mr. J. W. Pease has been regarded since he took his seat in the House of Commons, in 1865, as one of the greatest authorities on mining matters. He is the senior representative of the southern division of the County of Durham, and within his large constituency some 17,000,000 tons of coal per annum are raised, being more than

division of the County of Durham, and within his large constituency some 17,000,000 tons of coal per annum are raised, being more than the annual production of any other coal field in the United Kingdom, within 3,500,000 tons of the whole coal production of the United States in 1866, and something like 2,000,000 tons more than the total annual production of either France or Belgium in 1872. From his intimate knowledge of the special conditions affecting this important coal field Mr. Pease has several times been required to give evidence before parliamentary committees appointed to deal with questions affecting the coal supply of Great Britain, and his evidence before the Coal Commission of last year showed that no one had more thoroughly mastered the causes and effects of the scarcity and dearness that became so conspicuous in the coal trade during the dearness that became so conspicuous in the coal trade during the

years 1872-3.

Mr. Pease is a director of the North-Eastern Railway, a county magistrate for Durham, and the holder of numerous other offices of a more or less public and honourable kind in connection with the constituency he represents in Parliament. But he and his brothers have distinguished themselves not more for their commercial enterprise than for their munificent charities. In connection with most of their mines and collieries they have established chapels, schools, and hospitals; to the towns of Middlesborough and Darlington they have goted many thousands of pounds for public nursoes more rs 1872-3. and hospitals; to the towns of Middlesborough and Darlington they have voted many thousands of pounds for public purposes, more especially connected with education. The temperance movement has found them warm and devoted friends, so much so that they will not allow a single public-house to be erected in connection with their different properties where it is in their power to prevent it; and of the domiciliary accommodation of their workmen—who number some 8000 to 10,000—it may be truly said that in the North of England, at all events, it is unsurpassed.

IRON.—Mr. F. H. GOSSAGE, of Widnes, manufactureing chemist, has pitented some improvements in the manufacture of iron. For the purpose of utilising in the manufacture of iron the substance known as "purple ore, he so far dries the purple ore as to leave about 12 percent, of water in it, and moulds the same into balls or bricks with the aid of mechanical pressure.

of England, at all events, it is unsurpassed.

SELF-ACTING CATCHES.—Messrs. TAYLOR, of Barnsley, has patented an invention which relates to improvements in self-acting catches or fastenings for securing the doors of railway and other wagons or trucks, whereby the ordinary studs, cotters, and chains are dispensed with. According to this invention, the self-acting catches consist of a lever catch or pawl moving on a pin carried by a plate or bracket fixed to the body of the wagon. The lever catch is prevented from rising by means of a weighted lever moving on a pin or -tud, so arranged as to be readily moved out of and into position for opening or closing and securing the door of the wagon.

DANIEL GEORGE ROUND, Deceased NOTICE TO CREDITORS AND OTHERS.

DANIEL GEORGE ROUND, Deceased.

NOTICE TO CREDITORS AND OTHERS.

PURSUANT to the 22nd and 23rd Victoria, cap. 35, intituled "An Act to further Amend the Law of Property and to Relieve Trustees," ALL CREDITORS and others having CLAIMS or DEMANDS against or affecting the Estate of DANIEL GEORGE ROUND, late of Portland House, Edgbaston, Birmingham, in the county of Warwick, and of the Hange Colliery and Frunaees, Tividale, Tipton, in the county of Stafford, Esquire, deceased (who died on the 20th day of May, 1874, intestate, and to whose personal Estate and Effects Letters of Administration were, on the 25th day of June, 1874, granted by Her Majesty's Court of Probate out of the District Registry, at Birmingham, to JOSEPH ROUND, of Portland House, Edgbaston, aforesaid, Coal and Iron Master, and BENJAMIN ROUND, of Witley Lodge, Halesowen, in the county of Worcester, Coal and Iron Master, brothers, and two of the next kin of the deceased), are hereby required to SEND IN THEIR CLAIMS OR DEMANDS on or before the signed, their solicitor.

And notice is hereby further given, that after the said 31st day of December, 1874, to the said Administrator will proceed to distribute the assets of the said intestate amongst the parties entitled thereto, having regard only to the Debts or Claims of which they shall then have received notice, and that the said Administrators will not be liable for the Assets so distributed, or any part thereof, to any person of whose claim they shall not then have had notice.

WILLIAM S. ALLEN, 35, Waterloo-street, Birmingham (Solicitor to the said Administrators).

Dated this 10th day of October, 1874.

IN THE GOODS OF NICHOLAS ENNOR, Deceased. Pursuant to 22 and 23 Vict., cap. 35.

Pursuant to 22 and 23 Vict., cap. 35.

NOTICE IS HEREBY GIVEN, that ALL CREDITORS and PERSONS having any CLAIMS or DEMANDS upon or against the ESTATE of NICHOLAS ENNOR, late of the parish of 8t. Teath, in the county of Cornwall, Gentleman, deceased, who died ou or about the 23rd day of May, 1874, and whose Will was proved on the 15th day of July, 1874, in the Principal Registry of Her Majesty's Court of Probate, by NICHOLAS MALE, of the borough of Camellord, in the said county of Cornwall, Gentleman, one of the Executors in the said Will named John Hawke, the other Executor therein named, having renounced the probate and execution thereof), are hereby REQUIRED to SEND IN the PARTICULARS of their CLAIMS or DEMANDS to the said Nicholas Male, or to the undersigned, his solicitor, on or before the 24th day of December 18x1.

alas, or to the undersigned, his solicitor, on of october the said Nicholas Male will next.

And notice is hereby also given, that after that day the said Nicholas Male will proceed to distribute the assets of the deceased among the parties entitled thereto, having regard only to the claims of which the said Nicholas Male shall then have notice, and that he will not be liable for the assets or any part thereof so distributed to any person of whose debt or claim he shall not then have had notice.

THOMAS CREEER, of Camelford, Solicitor for the Acting Executor.

Dated this 22nd day of October, 1874.

THE EXECUTORS of a DECEASED GENTLEMAN are DESIROUS of ASCERTAINING where they can obtain INFORMATION held shares:—

eld shares.—
COLONIAL GOLD COMPANY (INCORPORATED).
CARADON VALE MINE COMPANY.
HAVAN SILVER-LEAD MINES COMPANY (LIMITED).
NEVADA FREEHOLD PROPERTIES TRUST.
NORWEGIAN COPPER COMPANY (In Liquidation).
HINDOSTAN (SINGHBHOOM) COPPER COMPANY (LIMITED).
Address, Messrs. WALTERS, YOUNG, and Co., 9, New-square, Lincoln's Inn,
London.

By the Author of "Mining Fields of the West," &c. Just published. Fifth Edition. Price Sixper

A PAMPHLET, entitled "INVESTMENTS AND SPECULA-TIONS," containing some valuable Advice to Investors and Speculators in Mines, also Selected Lists of suitable Properties for the immediate Outlay of Capital, BY CHARLES THOMAS, MINING ENGINEER, 3, GREAT ST. HELEN'S, LONDON.

THE STOCK EXCHANGE OBSERVER.—A Monthly Journal of Mining, Railway, Banking, Assurance, and Joint-stock Enterprise. Annual Contents: Times City Editor: Gresham Assurance; Thorp's Gawber Prospectus Bilion and Crump; the Beseiged Resident, and Broker Abbott, &c. Subscriptions must be sent to the Editor. 7, Talbot-court, Gracechurch-street, E.C.

MAN GRAVELS.—This mine is paying dividends of 8s. 6d. At 8s. 6d. a share quarterly, and it is stated that they will soon be augmented to 10s. a share. At 8s. 6d. a share the value is £3 10s. for ten years. As my name has been so freely sold in the share the value is £3 10s. for ten years. As my name has been so freely columns this day. I do not shirk the responsibility of my own opinions. Hence a melling to sell to any approved party the quarterly dividend, at 8s. 6d. a share quarterly. This will enable anyone possessing shares to realise, and employ the money in other profitable investments, while he secures the excess on 8s. 6d. dividends for the very simple risk of paying any falling off.

1. TREDINNICK, Consulting Mining Engineer.

WHEAL MARY ANN MINE, NEAR LISKEARD

One Mile from Menheniot Station on the Cornwall Railway. FIRST SALE, TUESDAY AND WEDNESDAY, 24TH AND 25TH NOVEMBER, 1874 MR. SPRY is instructed to SELL, BY PUBLIC AUCTION, on the above-named days, at One o'clock in the afternoon precisely, on the Trelawny part of Wheal Mary Ann Mine, in the parish of Menheniot, Cornwall, about SEVEN HUNDRED LOTS OF PRIME

MINING PLANT, MACHINERY, AND MATERIALS,

ONE 50 in. cylinder PUMPING ENGINE, 10 ft. stroke, equal beam, with FOUR 10 ton BOILERS, and fittings complete.
ONE 20 in. cylinder horizontal WINDING ENGINE, 5 ft. stroke, with ONE 8 ton BOILER and CAGE. ONE 7 ton spare BOILER.
Capstan shears.
Crusher, with water-wheel attached. 2 water wheels.
Stamps axies and lifters.
Stamps axies and lifters.
Styling plates, from 5 to 6 in.
The work.
Strapping plates, from 5 to 11 in.
Staples and glands, flange pins, rod pins.

nd agents.

Descriptive eatalogues may be obtained of Mr. W. G. NETTLE, the Purser, iskeard; or of the Auctioneer, Liskeard.

Dated 10th November, 1874.

TO CAPITALISTS, AND OTHERS.

WEIGCOLLIERY, Within two miles from Swansea, on the Old Carmarthen Ro MR. JOHN M. LEEDER has been instructed by Mr. D. H. Rees TO SELL, BY PUBLIC AUCTION, at the Oxford Chambers, Oxford street, Swansea, on Wednesday, November 25, 1874, all that above-named C O L L I E R Y,

Held on lease fer an unexpired term of 15 years, from June, 1874, granted by Sir John Armine Morris to the said D. H. Rees, at a dead rent of £150 per annum, and 6d. per ton (of £2½ cwts.) royalty.

The property contains THREE VALUABLE SEAMS of BITUMINOUS or HOUSE COAL—viz., the Five-feet Vein, 15 acres of which is unworked; the Six feet ditto, 20 acres of which is unworked; and the Three-feet Vein, 50 acres of which is unworked.

feet ditto, 20 acres of which is unworked; and the Three-feet Vein, 50 acres of which is unworked.

Together with the Lease will be sold the PLANT and MACHINERY, comprising a 13-horse power horizontal STEAM ENGINE, reversable motion, with egg-end BOILER complete; 16-horse power ditto, egg-end BOILER, drum 6 ft. diameter, V bob, with crank and rod complete; 4 water wagons in good condition to 10 tons of bridge rails, 14 lbs.; 16 coal trams, to carry from 5 to 9 owts. each; 2 brought carriages; 2 weighing machines; crab which, sheaves, chains, blocks, large quantity of sleepers. smiths' tools, grindstone, wire ropes, scrap iron, about 120 ft. iron water piping from ½ in. to 1½ in., wood erection used as smiths' and carpenters' workshop, wood erection used as office, &c., &c.

Sale to commence at Twelve o'clock at noon.

For further particulars apply to the Auctioneer, at his offices, Oxford Chambers, Oxford-street, Swansea.

WHEAL OSBORNE, CROWAN, CORNWALL. UNRESERVED SALE OF PUMPING ENGINE, BOILER, STAMPS AXLE, &c.

FOR SALE, BY TENDER, IN FOUR LOTS.—

Lot 1.—ONE 40 in. cylinder PUMPING ENGINE, equal beam.

Lot 2.—10 ton BOILER.

Lot 3.—14 in. cylinder ENGINE.

Lot 4.—12 heads STAMPS AXLE.

The Tenders will be opened by the Committee of the above-named Mine, at Abraham's Hotel, Camborne, on Tuesday, the 17th November, at half-past Two P.M., when the highest bidder will be the purchaser.

NANTYCRIA MINES, CARDIGANSHIRE.

FOR SALE, the VALUABLE MINERALS under a TRACT OF LAND containing about SEVEN HUNDRED ACRES, situate in the parish of Lianbadarn Fawr, in the country of Cardigan, known as NANTYCRIA LEAD AND ZINC MINES,

Held upon lease for a term of which about 26 years are unexpired, at a rental of \$1 per annum, and a royalty of 1-15th of all minerals gotten, the minimum royalty being £80 per annum, together with the \$HOPS, DORMITORIES, MACHINERY, PUMPS, &c., necessary for working the same, all in good working order.

There are three large reservoirs on the property, containing more than ample water to work the machinery all the year round. There are two shafts sunk on the property, and a good course of ore laid open.

TO BE SOLD BY PRIVATE TREATY.

Apply to Messrs. C. C. Ellis and Co., Solicitors, 19, St. Swithins-lane, London, E.C.

TO CAPITALISTS.

TO CAPITALISTS.

TO CAPITALISTS.

OR SALE,—IN NEWSOUTH WALES,
1340 ACRES TIN LANDS,—Lode and Stream.
2430 ACRES COPPER LANDS (portions freehold).
2112 ACRES IRON AND COAL.
2250 ACRES COAL (on sea coast).
4000 ACRES COAL (inland, on railway line).
200 ACRES KEROSENE SHALE.
200 ACRES PLUMBAGO.
105 ACRES FREEHOLD GOLD DEPOSIT (Brown's Creek).
The above properties are all first-class, and on or near railway lines or water carriage, and are the very "pick" of their respective districts (being some of the first selections made).
Liberal terms, either as to purchase or working on royalty, will be given to parties able to carry out arrangements.
Apply to the owner,—
CHARLES W. WEEKES, Circular Quay, Sydney, N.S.W.

MINING MACHINERY AND MATERIALS FOR SALE, comprising STEAM ENGINES, WATER WHEELS, PITWORK, and other MINE MATERIAL. - Apply to—
W TREGAY, REDRUTH.

COLLIERY FOR SALE, on advantageous terms. The LEASE of a VALUABLE COAL PROPERTY in SOUTH WALES.

Address, "M. W.," care of Messrs. Gardner and Co., 31, St. Swithin's-lane, E.C.

ORNISH PUMPING ENGINES FOR SALE, VIZ.:ONE 60 in. CYLINDER, 9 ft. stroke; with ONE BOILER.
ONE 40 in. ditte, 9 ft. stroke; with or without BOILER.
These engines are in first-class condition.

engines are in first-class condition.
to John Hocking and Son, Engineers, Trewirgle-terrace, Redruth,

TWO 14 horse power TRACTION, COLLIERY WINDING, or PLOUGHING EN: INES FOR SALE, in Midland Counties.

Apply to Mr. T. FENNICK, Iron Merchant, Middlesborough.

O N SALE,—MASSIVE CRUSHING MILL, with two pairs of 24-in. rolls, in east metal frames.

Also, 250 yards of 1½ in. diameter IRON WIRE WINDING ROPE
Add-ess, "X.Y.Z.," MINING JOURNAL Office, 25, Fleet-street, Londo

FOR SALE, a HORIZONTAL HIGH-PRESSURE ENGINE, 13½ in. cylinder, 24 in. stroke; HORIZONTAL HIGH-PRESSURE ENGINE, 14 in. cylinder, 30 in. stroke; and a PAIR of GUN-METAL PUMPS 6 in. diameter, 12 in. stroke; also, a TUBULAR BOILER, up to 60-horse power of Yorkshive plates throughout. Yorkshire plates throughout.

Apply to W. T. HENDRY and Co., 2, Wilson-street, London E.C.

FOR SALE, CORNISH ROTARY ENGINE, two fly-wheels, about 20 tons; TWO BOILERS, 20 tons; THREE STAMPS AXLES, five cams to the round, two sets complete, with lifters, &c., for stamping. To be ld together or separately.
Apply to Mr. Howard, Auctioneer, St. Columb, Cornwall.

POR SALE, ONE 60 in. cylinder PUMPING ENGINE, 9 ft. stroke, equal beam, with ONE BOILER, 10 tons: ONE 40 in. cylinder PUMPING ENGINE, 9 ft. stroke in cylinder, by 8 ft. in shaft, with ONE BOILER, 10 tons.

Apply to Mr. John Watson, 9, Gracechurch-street, London, E.C.

TO CAPITALISTS DESIROUS OF JOINING OTHERS.

NO PROMOTION MONEY OR PREMIUMS

TTENTION having for some time past been directed to various PIECES of MINERAL GROUND in CORNWALL, of certified value and lucrative capacity, CAPITALISTS are invited to JOIN OTHERS in their development. The difference in value is obviously immense between the zero of inaction and the vitality of dormant interests, and the prosperity to which, by means of vigorous development, such sound undertakings as are now under consideration may attain, will accure to the parties entitled, without premium or promotion money. The object now being to, if possible, divert capital into profitable home channels for the benefit of investors and the county, there being thousands of miner requiring work at home, and others waiting to return from all parts of the world on a resumption of home industry.

The first valuable opportunity to be submitted is a Siver Lead Mine, in 2048 shares, to be worked on the Cost-Book System, with quarterly meetings on the mine, and an Office of Reference in London.

Address, "Cornubiensis," MINING JOURNAL Office, 26, Fleet street, E.C.

ARYTES (SULPHATE OF), CRUDE OR GROUND Apply to Force Crag Lead and Barytes Mining Company, 69, Close, Newcostle-on-Tyne,

THE CHAPEL HOUSE COLLIERY COMPANY (LIMITED).

NOTICE IS HEREBY GIVEN, that the THIRD QUARTERLY DIVIDEND, at the rate of FIFTEEN PER CENT. PER ANNUM for the quarter ending 30th September last, will be PAYABLE at the Imperial Bans, Lothbury, E.C., on and after the 16th inst.

W. H. HARRISON, Secretary. By order, 1, Palmerston Buildings, London, E.C.

ISSUE OF £300,000, THE BALANCE OF THE SHARE CAPITAL OF THE

#### BANBURY AND CHELTENHAM DIRECT RAILWAY COMPANY.

CLOSING OF THE LISTS.

NOTICE IS HEREBY GIVEN, that the SUBSCRIPTION LISTS for the above will be CLOSED on TUESDAY NEXT, the 17th instant, for LONDON, and on WEDNESDAY NEXT, the 18th instant, for COUNTRY APPLICATIONS.

By Order of the Board,
RICHARD B. LOOKER, Secretary.
No. 3, Victoria-street, Wesminster, S.W., 12th November, 1874.

FIRST ISSUE OF 2000 SHARES, OF WHICH 235 HAVE BEEN

APPLIED FOR AND ALLOTTED TO THE VENDORS THE GREAT RAKE LEAD MINING COMPANY

(LIMITED). Registered under the Companies Act, 1862, whereby the liability of the shareholders is limited to the amount of their shares Capital £25,000, in 25,000 Shares of £1 each.

PAYABLE—5s. per share on application; 5s. on allotment; 5s. in two months; and 5s. in four months after allotment. W. and S. EVANS and CO., Derby.

JOSEPH STONE, Esq., Wirksworth.
AUDITOR.
JOHN LEWIS, Esq., A.I.A., Public Accountant, Birmingham.
SECEPTARY.
CHARLES PARKER, 3, Madeley-street, Derby.
OFFICES,—BANK CHAMBERS, TENNANT STREET, DERBY.

THE ST. DAVID'S LEAD MINING COMPANY

(LIMITED). orporated under the Limited Liability Acts, 1862 and 1867, by which the liability of the shareholders is limited to the amount of their shares. Capital £10,000, in 10,000 Shares of £1 each. THE PRESENT ISSUE 18 LIMITED TO 3000 SHARES.

Payments-10s, on application; and 10s, on allotment. DIRECTORS. MR. SAMUEL AMPHLET, Bayhurst, Hagley Road, Edgbaston.—

MR. SAMUELI ABIT THEORY.

CHAIRMAN.

MR. WILLIAM RICHARDSON, Balsall Heath.

MR. WILLIAM SUNDERLAND, Edgbaston.

MR. JOHN WALFORD, Edgbaston.

Directors of the South Prince Patrick Lead Mining Company (Limited).

BANKERS.
LLOYDS' BANKING COMPANY (LIMITED), Ann-street, Birmingham. OFFICES,-47, ANN STREET, BIRMINGHA SECRETARY (pro tem.)-MR. HENRY HOWELL.

This company has been formed for the purpose of acquiring and working the St. David's Lead Mines, which are situated a little more than a mile from Holywell, in Flintshire, in a mineral district highly famed from the well-attested fact that millions of pounds sterling have been realised in profits by working the lead mines in the limestone formation wherein is situate the St. David's sett.

The directors, before inviting the public to invest, decided to make a trial of the property, so as to be assured that there was a probability of a success, and time has been allowed by the vendor for that purpose, the result of the operations being very satisfactory from the fact that a lode is now being worked and lead raised, which it is expected will of itself yield enough ore to make a profit.

There are three other very strong and well known lodes, running east and west through the sett. These lodes have alrea by yielded many thousands tons of lead to the east, and it is expected they will also be productive in this sett.

The work already done is as follows:

A shaft 40 yards deep sunk on a parallel lode.

A shaft, with an excellent whinsey on it (all in first rate order), 80 yards deep, sunk on the renowned Milwr lode, which has made large profits to the east of this seti.

Another shaft is sunk to a depth of 40 yards, near to the junction of two main

or this sett.

Another shaft is sunk to a depth of 40 yards, near to the junction of two main cast and west lodes with a north and south lode. This will be another trial to be continued in further developing the mine, and Capt. Thomas Pierce and Capt. John Jones, of the South Prince Patrick Mine, say it will be the best trial in Flintshire.

Capt. John Jones, of the South Prince Patrick Mine, say it will be the best trial in Flintshire.

It is also known that there is a flat near to the whim-shaft, from which some lead has been got, and it is intended to open it in proper course, as these flats sometimes yield an enormous quantity of lead from a comparatively small area.

Another important feature is that there are swallows in the ground below 80 yards, which will take the water, and there is also plenty of surface water for washing and dressing the ore.

About 12 months since some of the directors of this company had the pleasure of bringing out another mine—viz., the South Prince Patrick (also near Holywell), which has proved so successful an enterprise as to be already in the Dividend List, and the shares are now selling at about 100 per cent. premium. It is believed the prospects of the St. David's Mines are even greater than those of the South Prince Patrick were at that time, inasmuch as one only of the lead-bearing lodes discovered will, it is believed, give profits on capital invested, and there can be no doubt that if, on further working the east and west lodes show anything like what they have done to the east of the sett, the St. David's shares will soon command a high premium.

As a portion of the required capital is already privately subscribed, only 3000

high premium.

As a portion of the required capital is already privately subscribed, only 3000 shares are now offered for public subscription.

The only agreement entered into is dated Aug. 15th, 1874, between Henry Sunderland of the one part, and Henry Howell, of 47, Ann-street, Birmingham, on behalf of the company of the other part, whereby the said Henry Sunderland agreed to sell his interest in the said mines for the sum of £8000, payable £1300 in cash and £4700 in fully paid-up shares of the company.

Samples of the ore, and a planof the property, can be seen at the office of the company, where copies of the captains' reports and all other repulsite information may be obtained.

Applications for shares should be made to the Secretary of the company, 47, Ann-

ned. ations for shares should be made to the Secretary of the company, 47, Ann

FORM OF APPLICATION FOR SHARES.
To the Directors of the St. David's Lead Mining Company (Limited). GENTLEMEN,—Having paid to the sum of £, being a deposit of 10s. per share on shares in the above company. Trequest that you will allot to me that number of shares, and I hereby agree to accept such shares, or any less number you may allot me, on the conditions state in the prospectus, and subject to the Memorandum of Association of the company.

Name (in full)

Name (in full) 

THE ST. DAVID'S LEAD MINING COMPANY
(LIMITED).

Notice is hereby given, that THE SUBSCRIPTION LISTS for the above will be CLOSED on FRIDAY NEXT, the 20th instant.

47, Ann-street, Birmingham, November 13, 1874.

M R. THORMAN WOODWARD, STOCK AND SHARE BROKER, TRURO, CORNWALL.

TIMOTHY HUGHES, R. 59, SEEL STREET, LIVERPOOL.

The Registered Office of the PRINCE PATRICK, GROSVENOR, WEST BRYN CELYN, and GREAT EAST FOXDALE LEAD MINING COMPANIES (LIMITED). Full information respecting these Mines forwarded on application.

RELIABLE INFORMATION given respecting Mines in the Isle of Man, Flint-nire, and the neighbouring districts.

GROSVENOR, ENTWISLE, AND CO.
STOCK AND SHARE BROKERS
SS, FORTLAND STREET, MANCHESTER.

M ESSRS. STANLEY AND COMPANY, MINING SHARE BROKERS AND FINANCIAL AGENTS, 22, COMMERCIAL STREET, LEEDS.

M R. R. PERCY ROBERTS, \*\*SINANCIAL AGENT, \*\*O. ENGLISH STREET, CARLISLE.

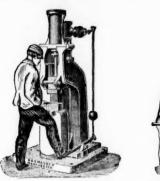
JOHN PETHERICK, M.E. (from Camborne, Cornwall), having had nearly Ten Years' experience in the different Mining Districts of Mexico, OFFERS his SERVICES to the mining world to SURVEY and FAITH-FULLY REPORT on MINING PROPERTY in any part of this REPUBLIC. Pachuca, Mexico, June 13, 1874.

CAPTAIN ABSALOM FRANCIS, MINING AGENT, ENGINEER, AND SURVEYOR.

# B. & S. MASSEY, OPENSHAW, MANCHES

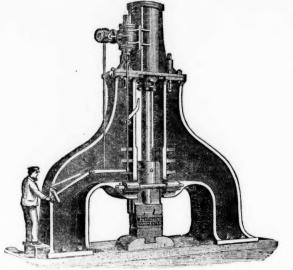
PRIZE MEDALS AWARDED:-Paris, 1867 Havre, 1868; Highland Society, 1870; Liverpool, 1871; Moscow, 1872; Vienna, 1873.

Patentees and Makers of Double and Single-acting STEAM HAMMERS of all sizes, from ½ cwt. to 20 tons, with self-acting or hand motions, in either case giving a perfectly DEAD BLCW, while the former may be worked by hand when desired. Large Hammers, with Improved Framing, in Cast or Wrought Iron. Small Hammers, working up to 500 blows per minute, in some cases being worked by the Foot of the Smith, and not requiring any separate Driver.



Small Hammer with Foot Motion





Steam Hammer for Heavy Forging.

From 60 to 100 Steam Hammers and Steam Stamps may usually be seen in construction at the Works.

SPECIAL STEAM STAMPS, of great importance for SPECIAL STEAM STAMPS, of great importance for Forging, Stamping, Punching, Bolt-making, Bending, &c.

STEAM HAMMERS for Engineers, Machinists, Shipbuilders, Steel Tilters, Millwrights, Coppersmiths, Railway Carriage and Wagon Builders, Colliery Proprietors, Ship Smiths, Bolt Makers, Cutlers, File Makers, Spindle and Flyer Makers, Spade Makers, Locomotive and other Wheel Makers, &c.; also for Use in Repairing Smithies of Mills and Works of all kinds, for straightening Bars, hending Cranks, breaking Pig-iron &c. for straightening Bars, bending Cranks, breaking Pig-iron, &c.





General Smithy Hammer.

# ROBERT DAGLISH &

Boiler Makers, Engineers and Ironfounders, &c.,

#### HELEN'S OUNDRY, LANCASHIRE,

ROBERTSON'S PATENT

VALVELESS ENGINES, AIR-COMPRESSORS FOR COLLIERIES AND PUMPS,

CHEMICAL PLANT OF EVERY DESCRIPTION.

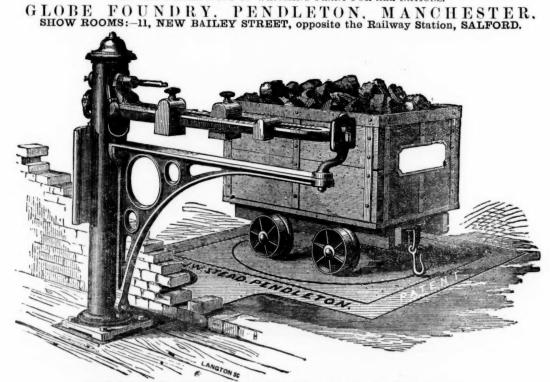
ROLLING MILL ENGINES, GEARING,

GLASS MACHINERY.

MINING MACHINERY FOR COPPER, COAL, GOLD, AND SALT.

(Late of the Firm of HODGSON and STEAD),

MANUFACTURER OF WEIGHING MACHINES, WEIGHBRIDGES, AND ALL DESCRIPTIONS OF WEIGHING PLANT FOR ALL NATIONS.



NEW PATENT WEIGHING MACHINES, specially for Mining Uses.

Globe Foundry is One Minute's Walk from the Pendleton 'Bus Office, and Four Minutes' from Pendleton Rauway Station.

# PERFORATED PLATES OF IRON, STEEL, COPPER, BRASS, ZINC, AND TIN, For SIFTING and SEPARATING APPARATUSES, KILNS, LATTICES, BUILDING PURPOSES, GARDEN FURNITURES,

&c., after any pattern perforated, are furnished as a speciality since 1857, by

The HUMBOLDT ENGINE-WORKS, in KALK, near Deutz-on-the-Rhine.

# DUNCANS' LUBRICATING OILS

WARRANTED FREE FROM GUMMINESS.

PALE INSTAR SPERM, OLIVE, and LARD, from 28. 1d "DON ECONOMIC" LUBRICATING OIL, from 28. 3d. to

Mr. ALFERD HEWLETT, Wigan Coal and Iron Company, says—"I have used the Don Oil for nearly two years, and find it to answer exceedingly well for purposes of lubrication."

DUNCAN BROTHERS, Sole Manufacturers, BLOOMFIELD STREET, LONDON, E.C.



LAMP MINERS' GAUZE MANUFACTORY,

JOSH. COOKE AND CO. J.C. SAFETY LAMPS

MADE to DRAWING, DESCRIPTION, or MODEL. Illustrated
Price Lists free, by post or otherwise.
VALUABLE TESTIMONIALS FROM EMINENT FIRMS. MIDLAND DAVY LAMP WORKS,

20, &c., LOWER LAWLEY STREET,

B I R M I N G H A M.

Specimens may be seen at the INTERNATIONAL EXHIBITION, Kensington

Gore, CLASS XIV., DIVISION 3, No. 6905. THOMAS TURTON AND SONS,



MANUFACTURES OF
CAST STEEL for PUNCHES, TAPS, and DIS
TURNING TOOLS, CHISELS, &c.
AST STEEL DISTON BODS. THE DISTON CAST STEEL PISTON RODS, CRANK PINS, CON NECTING RODS, STRAIGHT and CRANK

AXLES, SHAFTS a

FORGINGS of EVERY DESCRIPTION. DOUBLE SHEAR STEEL BLISTER STEEL, SPRING STEEL, GERMAN STEEL, WM. GREAVES 191 Locomotive Engine, Railway Carriage and Wagon

Springs and Buffers. SHEAF WORKS AND SPRING WORKS, SHEFFIELD.
LONDON WARPHOUSE, 35, QUEEN STIEET, CANNON STREET, CITY, E.C.
Where the largest stock of steel, files, tools, &c., may be selected from.

JOHN AND EDWIN WRIGHT,

(ESTABLISHED 1770.)

MANUFACTURERS OF EVERY DESCRIPTION OF

PATENT FLAT AND ROUND WIRE ROPSS from the very best quality of charcoal iron and steel wire.

PATENT FLAT AND ROUND WIRE ROPSS.

PATENT FLAT AND ROUND HEMP ROPES, HIPS' RIGGING, SIGNAL AND FENCING STRAND, LIGHTNING CONDUCTORS, STEAM PLOUGH ROPES (made from Wedster and Horself) patent steel wire), HEMP, FLAX, ENGINE YARN, COTTON WASTE TARPAULING, OIL SHEETS, BRATTICE CLOTHS, &c.

UNIVERSE WORKS, MILLWALL, POPLAR, LONDON. UNIVERSE WORKS, GARRISON STREET, BIRMINGHAM. CITY OFFICE, No. 5, LEAUENHALL STREET, LONDON, S.

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# DYNAMIT

FOR BLASTING PURPOSES, can now be supplied in packages, containing 50 lbs. each, for export to any part of the World.

# Nobel's Dynamite, or Safety Giant Blasting Powder,

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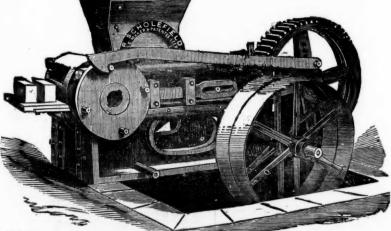
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	FODEIGN	DIVIDEND MINES	82 9 0 0	2 6May 1873 2 6Mar. 1872 1 2 0Sept. 1874	0000 Kingston Valley 2000 Ladywell,* l, Sa 2500 Levant, c, t, St. 0000 Llanarmon, Der	d*	0 1½1½ 1½ 0 3 2¾ 3 0 —	18 Llynvi Valley Col. Co. [L.] 15 p.c. pref. 1	12 0 0 12 10
nada and Tirito ( stralian, c, South ttle Mountain,* c, dseye Creek, q, C	Consol., s*† 1 Australia† , (6240 part pd.) (California*	2 0 0 2 1½ 1½ 1 0 0 ½ 36 56 7 7 6 1½ 1½ 1½ 5 0 0 4 0 0 2¾ 2½ 2½	0 4 3 0 0 11 6 0 0 10 0 0 0 14 0 0	2 0July 1873 3	0000 Llanrwst, l, Car 7000 Llywernog, l. C	bigh	0	10 Lydney and Wignool Iron Ore (L.). 10 Marbella Iron Ore O. [L.]. 10 Merry and Cuninghame [L.]. 10 Merey Steel and Iron Co. [L.]. 11 Merry and Cuninghame [L.]. 12 Monkland Iron Co. [L.]. 13 Monkland Iron and Coal Co. [L.]. 14 Midland Iron Co. [L.]. 15 Myundy Iron Ore [L.]. 16 Neepsend Rolling Mills [L.] 17 Neepsend Rolling Mills [L.] 18 Newbudda Coal and Iron 19 New Sharlston Collieries [L.] Fref 10 Newport Abercarr Coal Co. [L.] 10 Northmptn. Coal, Iron & Wagon [L.]. 10 Northfield Iron Co. [L.]. 110 Northfield Iron Co. [L.]. 121 Parkgate Iron Co. [L.].	0 0 0 6 3 10 0 ¼ dis. 5 0 0 5 0 0 par
berg, l, German a Burra,* c, So Copper Mining r Creek, g, Cali	ny*	5 0 0 — 7 0 0 29 28 29 5 0 0 134 134 134	56 0 0 0 17 15 0 1 0 5 0 0	8 0July 1873 10 0Oct. 1872 0 0Sept. 1874 2 6June 1873	6000 Medlyn Moor, t 8000 Mellanear, c, Ho 5000 Mount Dalby, s 6144 Nangiles, t, c, K	Caradon* 4 18 , Wendron 0 12- yyle* 4 0 , I sle of Man* 1 0 ea. 9 14 omeryshire* 1 0	10. – 0 – 0 –	10 Monkland Iron and Coal Co. [L.] 1 10 Midland Iron Co. [L.] 4 10 Mwyndy Iron Ore [L.]	5 0 0 5% (3 10 0 1% 100 0 0 47 5
al American As go, s, Utah* ado Terrible, s- Pedro North de	ssociation*† 0 10 l, Colorado*† 5 l Rey*† 0	0 16 6 — 0 0 0 — 5 0 0 334 334 4 0 16 0 34 34 4	0 16 0 0	1 6July 1874 1	2000 New Roldon /	Northumberland* 1 0		1 Neepsend Rolling Mills [L.]	0 8 0 14 17 0 0 814 7 5 0 0
rado, g, Nova 80 na, g, s, Utah (1 lish and Austral	cotia*	0 0 1 11/4	2 5 0 0 1 3 12 0 0 2 7 3 0	5 0June 1878 6 0Dec. 1872 2 6Mar. 1873		, c, Camborne* 3 0 0 0 10 0 10 0 10 0 10 0 10 0 10 0		10 Northfield Iron Co. [L.]   10 Northfield Iron Co. [L.]   10 Northfield Iron Co. [L.]   10 Parkgate Iron Co. [L.]   6   10 Parkgate Iron Co. [L.]   6   10 Parkgate Iron Land Iron Land Land Land Land Land Land Land Lan	6 0 0 2½ 1 25 0 0 6½ 6 35 0 0 29½ 80 10 0 0 5¾ 6
taff, s, Utah* ina, l, Spain*† Run, hyd	10 10 10 10 10 10 10 10 10 10 10 10 10 1	0 0 0 0 0 176 134 2 0 0 0 434 434 434 0 0 0 56 34 34	4 2 0 0	5 0July 1873 2 6Sept. 1874 0 4Oct. 1872	3000 New Silver Rake 3200 New South Merl 5000 New St. Blazey,	, c, Gwinear		20 Patent Shaft and Axletree [L.]   1   20 Pelsail Coal and Irot 1 - 1 - 1 - 1   1   50 Phœnix Bessemer Co.   L.]   4   50 Rhondda Merthyr Coai Co. [L.]   5   50 Rhymney Iron Co. [L.]   5   10 Richards and Company [L.]   10   50 Ditto   10 Sandwell Park Colliery Co. [L.]   10   50 Ditto   10   50 Shotts Iron Co. [L.]   5   10 Sheepbridge Iron and Coai [L.]   5   10 Sheffled Forge and Rolling Mill [L.]   5   50 Silkstone & Dodworth Cl. & Iron [L.]   1   5   8 likstone & Dodworth Cl. & Iron [L.]   1   5   8 likstone & Dodworth Cl. & Iron [L.]   1   5   8 likstone & Dodworth Cl. & Iron [L.]   1   1   1   1   1   1   1   1   1	5 0 0 3 1 0 0 0 1434 133 0 0 0 20 25 0 0 0 37 39
Chance, s,* Uta ares, l, Spain*t itanian, Portuga mmoth Coppero	h 3 3 1*† (£5 shares). 3 polis of Utah. c. s 10	1 0 0 4½	0 14 0 0 14 14 2 0 1 11 6 0 0 5 0 0	2 0July 1873 3 4Sept. 1874 1 6Mar. 1873 5 0Dec. 1872	5000 North Laxey*	trick */ Holywell 1 0 0	18. 118	10 Richards and Company [L.]	0 0 0 2734 285
ountain Chief, s, ussian Mining & I ontgibaud, s-l, Fra ort Phillip, g, Clun	Utah*	0 0 0 — 0 0 0 — 0 0 0 21 19 21 1 0 0 ¾ ½ ¾	0 4 0 0 6 0 0 3 15 16 8 0 1 1 8 0 0	4 0Jan. 1873 0 0July 1873 19 9June 1874 1 0Jan. 1872	2000 North Wheal To 2000 North Pool, c, Il 1000 North Rosewarn 8000 North Treleigh V	wan, $t$ , $c$ , Illogan 1 19 $t$ logan*(Reserve 2500) 2 0 $t$	36 X X 36 X X 36 2 13/2 2 36 1 X X 1	10 Sheepolrage from and Colling Mill [L.] 50 Silkstone & Dodworth Cl. & Iron[L.] 5 Silkstone Fall Colliery Co. [L.]	2 10 0 56 3 7 0 0 34 3 5 0 0 3 1
thmond Consols, ottish Australian rra Buttes, g, Caluth Aurora, s, Ne	s, Nevada*† 5 Mining Co.*† 1 ifornia*† 3 vada*	5 0 0 7 634 734 0 0 0 7 634 734 0 0 0 134 134 134 2 0 0 0 2 134 234 5 0 0 34 3 334 4 0 0 234 3 334 4 0 0 334 3 334 5 0 0 0 334 3 34	1 16 6 0 15 per cent. 1 8 0 0 0 14 2 0	5 0July 1874 May 1874 2 0Dec. 1873 2 0Nov. 1873				50 Silkstone & Dodworth Cl. & Fron[L.]     5 Silkstone Fall Colliery Co. [L.]       20 Skerne Ironworks [L.]       50 Somorrostro Iron Co. [L.]       50 South Wales Coal Co. [L.]       10 Staveley Iron and Coal Co. [L.]       10 Starnton Iron and Steel Co. [L.]       20 South Cleveland Ironworks [L.]       20 South Cleveland Ironworks [L.]       21 Department of Company       22 South Cleveland Ironworks [L.]       23 South Cleveland Ironworks [L.]       24 South Cleveland Ironworks [L.]       25 South Cleveland Ironworks [L.]       26 South Cleveland Ironworks [L.]       27 South Cleveland Ironworks [L.]       28 South Cleveland Ironworks [L.]       29 South Cleveland Ironworks [L.]       20 South Cleveland Ironworks [L.]	0 0 0 0 0 0 573 573 0 0 0 93 10
eetland Creek, <i>g</i> , lima, <i>g</i> , s* (6000 st estphalian, s-l, c, l estern Andes, s* (8	California*†  1. are £5 f. pd.)  Prussia* 26  8000 £5 fy. pd.)	1 0 0 2½ 3 3½ 1 0 0 3½ 3 3½ 0 0 0 3½ 3 3½	2 18 0 0 0 11 6 0 54 0 020 1 3 7 1	2 0Sept. 1874 16 6 6May 1874 16 0 0Dec. 1873 17 0 0Aug. 1874 16	8923 Parys Mountain 2000 Penhale Wheal V 2000 Pennerley, l, Sh 8000 Perkins Beach, l	, s, st. Agnes	% ¼ ¾ 1¼1¼ 1¼ % ¼ ¾	10 Stranton Iron and Steel Co. [L.]	3 0 0 9 7 0 0 0 9 7 5 0 0
Mines.	NON-DIVIDI	END FOREIGN MINE	Last Pr Clos	Pr. Last Call Sept. 1872	2000 Plynlimmon, l, 1 2000 Prideaux Wood, 2800 Prince of Wales,	Llanidloes*	½ ¾ ¼ ½ ¾ ½	20 South Cleveland Ironworks [L.]. 20 100 Thames Iron Company. 100 7½ Titanic Iron and Steel	1 0 0 5 0 0 34 134 0 0 0 0 35 45
dlavista, s, Peru* (s ue Tent, hyd., Calii aganza, g, Brazil*† mp Floyd, s, Utah	E10 shares) fornia			Fully pd. 1 Fully pdOct. 1870 Fully pd.	3000 Russell, s-l, Swyn	7, l, Durham*		25 W. Cumberland I. and Steel [L.] 20 10 West Mostyn Coal [L.] (12 p.c.pref.) 10 Whitehaven Iron Co. [L.] 10	0 0 6¥ 5½ 0 0 0 –
sena Sulphur Compontales, g, s, Nicar ifton, s, Colorado* escent, g, Plumas C	pany, Romanga, It agua*† (and 12,542 County, California*	10 0 0   5 0 0   10 10 0 0   10 0 0   10 0 0   10 0 0   10 0 0   10 0 0 0	- 56 36 54 	Fully pd. Fully pd. Feb. 1872 Fully pd. 13	5123 South Condurrov 512 South Dolcoath, 5000 South Great Wo 2000 South Kit Hill,	v, t, c, Camborne I 6 5 6 c, t, Redruth 12 5 0 rk, t, St. Hilary 2 14 0 t, Callington* 1 0 0	1½ 1 1½ =	WAGON COMPANI	ES 191/
uglas, s, Georgeto st Sheboygan Prefe celsior Hydraulic (	wn, Col. erence* (40,000 ord Gold Washing Co.,	5 0 0 inary shares) 2 0 0 California* 6 0 0	= ::	Fully pd. 11	700 South Margaret, 2000 South Phœnix, t 8000 South Roman Gr 3000 South Roskear, t	v, I, c, Cambornel . 6 5 6 c, t, Redruth . 12 5 0 kk , t, St. Hilary . 2 14 0	34 36 76 34 36 76	10 Birmingham Wagon Co. [L.]	0 0 436 456 0 0 0 436 456 5 0 0 3 356 0 0 0 90 91
ontino and Bolivia, neral Brazilian, g* etzel Tunnel Co., G leombe Valley, g.*	g, New Granada*i	2 0 0	- % % % % %	Fully pd. 1:	3000 South Tolcarne, 2000 South Van,* l, N 3000 South Ward, l, I	t, c, Camborne 0 18 0 Iontgomeryshire 1 0 0 Beerferris 8 0 0	34 36 36	10 Birmingham Wagon Co. [L.]	0 0 14 18 10 0 par. 16 10 0 336 36 10 0 0 0 0 1 2
rnachos, * s.l. (£10 perial Brazilian Co lependence, g, Calif X. L., g, s, Californ	shares)		31/ 23/4 33	Fully pdFully pdFully pdFully pd.	496 South Wh. Francisco South Wheal Kit 1000 St. Agnes Consol 1000 St. Blazey t.* (£	rty, c, Illogan	9 10 12 5½ 5½ 6 1½ 1½ 1½	THE PERMANENT COMPAN	NIES.
ali, g, Nicaragua* lestosa,* l, z, Visca don and California abar, g, Colombia	ya, Spain (£2 shar a, g*†	res)	- ½ x x	Fully pd. 16	9000 St. David's," 8-l, 940 St. Ives Consols, 3000 St. Lawrence, Ar 3000 Success, &c., l, D	Holywell 1 0 0 t, St. Ives	8 67 =	"St." Anglo-American 100	0 0 0 7090
aga, l, Spain* paso, g, Colombia' zenberg, c, Honne tague & Waverley	(10000 pref. share if, Germany* Gold Quartz Crush	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 % ¼ 1 % 1	Fully pd. Fully pd. Fully pd. Fully pd. Allotment		Lifton, Devon	- × × ×	10 Brazilian Submarine   10	0 0 7% 8% 0 0 6% 1 0 0 0 9% 10%
nte Loreto, g, c, Ita w Pacific, g, s, Nev w Quebrada, c, Ven w Rosario, s, Mexic	ada* ezuela*	5 0 0	34 1/4 3/4 33/4 3 31/4 3/4 1/4 3/4	Fully pd. Jan. 1874 Fully pd. Fully pd.	1000 Trethellen of C	nomtool:*	2 1½ 2 ½ ½ ¾ ½ ½	10 Ditto, opercent. Preterence   10 Great Northern	0 0 17¼ 18½ 0 0 3¾ 4½ 0 0 10¾ 11 0 0 11 11½
w Zealand Kapangs wfoundland, * l rin American, g* nulcillo, c, Chili*† .	, g, Coromandel*		3 23/4 83/	Fully pd. Fully pd. Fully pd. Fully pd.	800 Tresellyn, t, Alta 800 Trevarrack, t, c, 200 Tucker's Downs.		24 24 24	8 Reuters 100  "St." Submarine 100  10 West India and Panama 100  20 Western and Brazilian 200  Wester	0 0905 210 0 0 3% 4% 0 0 11 11% 1000101 103
tarena United, g, It a, g, Colombia* (40 Tinto,* c, Huelva, sa Grande, g, Brazi by Consolidated	taly"	0 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9 % · · · · · 8 9 % · · · · · · · · · · · · · · · · · ·	Fully pd. Fully pd. Jan. 1874 July 1872	000 Unity Wood, t, c 000 Van Consols, l, L 000 Vaughan, s-l, Car	Nenwyn   2 17 6   1	275278 272	## STORY   STO	0 0 5½ 6½ 0 0 10½ 11½
ussia, c, Orenburg an in Pedro, c, Chili* inta Barbara, * g, Bra	d Uta*†zil (10000 new 10s.	sh.,2s. 6d. pd.). 0 9 6	3 2½ 2½ - ½ ¾ ½	Fully pd.	000 West Basset, c, I 000 West Bryn Celyn 100 West Condurrow	1   1   2   3   16   8   8   9   7   7   7   7   9   9   9   9   9	=	District of the Co. II. 1	0 0 10/3 dis. 1/1 0 0 4 dis. 1/1 0 0 6
wof Navada ** (190	Of ingrad)	1 0 0	250 240 250 	" Stock" 15	000 West Great Work 000 West Llangynog.	t, t, Breage* 1 0 0 s-l, Montgomery 2 0 0	12111	5 Gen. Phos. & Chem. WORKS CU. 25 1 1 Glaisofale Whinstone Quarry	0 0 26% 27% d; s, allver; a', siss
ecoma, s, Utah* nornhill Reef, g, Aust nited Mexican, s, Me tah, g, s-l, Utah*	tralia*	1000	24 34 54 34 34 54 234 234 234 34 34 34 34 34 34 34 34 34	Fully pd. 12	000 West Maria & Fo	rtescue, t, c, Lamer. 4 9 0. Flint 1 0 0.	% %	b, blende; cl, coap; c, copper; g, gold; l, leac  - l, silver-lead; t, tin; z, zl  - Limited Liability Companies; † quoted on    have paid dividends.	the Stock Exchan
ctoria (London)*, c, ocke Peninsula, c, Bo	Australia (25,000 s uth Australia	h. 16s. pd.)  1 00 1 00 1 s nos lest dividen l was pa	% % % % % %	Fully pd. 10	West Polibreen, t, 2000 West Roskear, t, 2000 West Tankear Luc 0000 West Wheal Luc	5-t, Finr 1 0 0. Linkinhorne, 0 18 0 5 0. St. Agnes 8 5 0. 1-t, bt, c, Camborne 0 2 0 0. 1, t, Salop* 1 10 4. y, t, c, Lelaut 1 10 4. land, t, c 3 14 0	_ и. и и	London: Printed by Richard MiddleTol Henry Exclish (the proprietors), at the STREET, E.C., where all communic tions addressed.—November 14, 1874.	
				1 %	At east 14 Heart (10).	3 14 U			. 1

	NOVEMBER 14, 1874.
	NON-DIVIDEND MINES—Continued.
4	NoDivide Mines.  Shares;  Mines.  292 West Wheal Seton, c, Cambornet 55 15 0 22% 32 23% 5000 Wheal Allen," s-l 110 0 0 15% 1 11%
6	6000 Wheal Agar, c, Illogan 10 0 0 224 200 224 5000 Wheal Allen, s.l 1 0 0 114 114 114 114
2	6000 Wheal Argus, t, Sancreed
	25000 Wheal Arthur, t, c, Calstock* 1 0 0 741 Wheal Basset and Grylls, t 9 18 6
	741 Wheal Basset and Grylls, t
	8400 Wheal Emma, t, c, Buckfastleigh 1 10 0 14
	100 Wheal Grenville, c, Camborne*   9 7 6 5 ½ 5 5½. 2048 Wheal Jane, t, Kea   2 13 10, 2½2½ 3½ 12000 Wh. Mary Hutchings,* t, Plympton   1 10 1½½ 1
	12000 Wh. Mary Hutchings,**, Plympton. 1 11 0 114114 1143000 Wheal Peevor, t, Redruth
	6000 Wheal Prussia, t, Redruth 2 0 0 44 47 10000 Wheal Ruby, t, Ludgvan 1 0 0 44 47
	4568 Wheal Sparnon t, Redruth
	4096 Wheal Uny, t, c, Redruth 12 9 6 3½3½ 3½ 6000 Wheal Vincent, t, Alternun 11 10
3	12000 Willoughby, <i>l</i> , Lianrwst 2 10 0 10000 Wye Valley, <i>l</i> , Montgomery* 3 0 0 3½3 3½ 1200 Zennor, <i>t</i> , Cornwall 5 0 0
	Mines:   Ames:   Ame
	TRON AND COAL COMPANIES,
	£ 15 Albion Steel and Wire Co. [L.] £10 0 0 11
	100 Ashbury Co. [L.] 90 0 0 44 34 dis
	10 Bagnall, John, and Sons [L.] 10 0 0 3 2½ dis. 10 Benhar Coal Co. [L.] 10 0 0 4½ dis. 50 Bilhao Ivon Ore Co. [L.] 35 0 0 5 pm.
	10 Bagnall, John, and Sons [L.]
	and Ironstone Company [L.] 25 0 0
	- Ditto 10 p. ct. bonds of £25 each 2 2½ pm.  4 Blaen Cwmbach Coal Co. [L.] 4 0 0 par ½ pm.  50 Blaenayon Iron and Steel Co. [L.] 37 10 0 ym 2 pm.
	50 Blachairn Iron Co. [L.] 37 10 0 25 Phochairn Iron Co. [L.] 15 0 0
	30 Ditto ditto B 30 0 0 20 20% pm.
	50 Bowling Iron Co. [L.] 50 0 0 25 30 pm. 5 Brynkinalt Collieries [L.] 50 0 0 25 30 pm. 50 Britannia Ironworks [L.] 25 0 0
	50 Britannia Ironworks [L.]
	100 Brown, John, and Co. [L.]
	100 Cammell and Co. [L.]
	20 Cannock and Huntington Coal [L.]. 2 0 0 54 54 dis. 10 Cardiff & Swansea St. Coal Co. [L.]. 4 0 0 54 34 dis. 10 Cardign Steel and Wire Co. [L.]. 7 10 0 74 65 dis. 10 Central Swedish Iron and Steel [L.]. 10 0 0 74 65 dis.
	5 Charlton Iron Co. [L.]
	50 Charlton Iron Co. [L.]
	10 Central Swedish Iron and Steel [L.]   10 0 0 4 6 5 6 6 5 6 Chartron Iron Co. [L.]   35 0 0 19 18 dis. par 50 Charlton Iron Co. [L.]   35 0 0 19 18 dis. par 50 Charlton Iron Co. [L.]   40 0 0 12 11 d dis. 10 Chillington Iron Co. [L.]   10 0 0 54 45 dis. 1 Clee Hill Colliery Co. [L.]   1 0 0 54 15 dis. 1 Clee Hill Colliery Co. [L.]   1 0 0 54 15 dis. 1 Consett Iron Co. [L.]   1 0 0 24 15 dis. 1 1 Consett Spanish Ore [L.]   1 0 0 24 15 dis. 1 1 Consett Spanish Ore [L.]   20 0 0 6 15 dis. 2 1 dis.
	1 Clee Hill Colliery Co. [L.] 1 0 0 54 2 dis. 10 Consett Tron Co. [L.] 7 10 0 154 154 pm. 1 Consett Spanish Ore [L.] 1 0 0 34 34 dis.
	1 Consett Spanish Ore [L.] 1 0 0 1 4 dis. 5 dis. 5 Cooke, William, and Co. [L.] 20 0 0 0 1 6 5 dis. 6 dis. 1 0 Darlington Iron Co. [L.] 8 0 0 2 1 dis. 1 dis. 2 dis. 1 dis. 2 dis. 2 dis. 2 dis. 3 dis
	10 Davis's Merthyr Colliery Co. [L.] 10 0 0 27 ds. 50 Davy Brothers [L.]
	32 Ebbw Vale Co. [L.]
	10 General Mining Ass. [L.] (£1 returned) 9 0 0 7 9
	20 Great Western Coal Co. [L.]
í	15 Hopkins, Gilkes, and Co. [L.]
	20 Grasgow Port Washington [Li.] 7 0 0 2 3½ dis, 20 Grast Western Coal Co. [Li.] 17 0 0 2 Gwyngwillim Colliery Co. [Li.] 10 0 0 3 2½ dis, 10 Hopkins, Gilkes, and Co. [Li.] 10 0 0 3 2½ dis, 10 Hopkins, Gilkes, and Co. [Li.] 17 0 0 7 6½ dis, 50 Knowles, Andrew, and Sons [Li.] 17 0 0 1 1½ pm. 10 Light Hali Coal, Iron, & Fire-Prick [Li.] 10 0 0 ½ dis, pr. 5 Littledean Woodside Coll. Co. [Li.] 5 0 0 ½ dis, pr. 10 Liangennech Colliery Co. [Li.] 10 0.0
	5 Littledean Woodside Coll. Co. [L.] 5 .0 •
	50 Llynvi, Ogmore, & Tondu Co. [L.] 42 0 0 12 10 di.
	10 Lydney and Wigpool Iron Ore [L.] 7 5 0 2½ 1½ dis. 10 Marbella Iron Ore Co. [L.]
	10 Marbella Iron Ore Co. [L.] 10 0 0 6 5½ ds. 10 Merry and Cuninghame [L.] 31 0 0 ½ dis. ½ pm. 6 Mersey Steel and Iron Co. [L.] 5 0 0 5 Mold Argoed Collery Co. [L.] 5 0 0 par ½ pm. 10 Monkland Iron and Coal Co. [L.] 10 0 0 6½ 6 dis. 10 Midland Iron Co. [L.] 5 0 0 5½ 6½ pm. 4 Mwyndy Iron Ore [L.] 31 0 0 14 1 dis. 1 1 dis.
	5 Mold Argoed Colliery Co. [L.] 5 0 0 par ½ pm, 10 Monkland Iron and Coal Co. [L.] 10 0 0 6½ 6 dis.
	10 Monkland Iron and Coal Co. [L.] 10 0 0 6½ 6 ds. 10 Midland Iron Co. [L.] 5 0 0 5½ 6½ pm. 4 Mwyndy Iron Cre [L.] 3 10 0 1½ 1 dis.
	100 Nant-v-Glo and Blaina (8 p. c. pref.) 100 0 0 47 50
	10 Neepsend Rolling Mills [L.]
	20 New Sharlston Collieries [L.] Pref 17 0 0 8½ 1½ die 10 Newport Abercarn Coal Co. [L.] 5 0 0
	1 Nerbudda Coal and Iron
	35 Palmer's Shipbuilding and Iron [L.] 25 0 0 6¼ 6 dia 190 Parkgate Iron Co. [L.]
	20 Patent Shaft and Axietree [L.] 10 0 0 53/4 6 pm, 20 Pelsall Coal and Iron J.]
	20 Pelsail Coal and Arteree [L.] 15 0 0. 3 1 ds. 50 Phoenix Besserner Co. [L.] 40 0 0. 14½ 18½ ds. 50 Rhondda Merthy Coai Co. [L.] 50 0 0. 20 25 ps. 50 Rhymney Iron Co. [L.] 50 0 0. 20 25 ps. 10 Richards and Company [L.] 4 0 0. 37 39 110 Richards and Company [L.] 4 0 0. 3/ 1 ps. 100 Sandwell Park Colliery Co. [L.] 100 0 0. 5
	50 Rhymney Iron Co. [L.]
	100 Sandwell Park Colliery Co. [L.] 100 0 0 – 50 Ditto
	100 Sheephridge Iron and Coal [L.] 55 0 0 27 28 pm
	10 Sheffield Forge and Rolling Mill (L.) 2 10 0 16 16 16 16 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18
	5 Silkstone & Dodworth Cl. & Iron[L.] 17 0 0 34 3 5 5 Silkstone Fall Colliery Co. [L.] 5 0 0 3 1 5 5 0 0 20 Skerne Ironworks [L.]
	50 Somorrostro Iron Co. [L.]
	100 Staveley Iron and Coal Co. [L.] 60 0 0 5/3 5/3 10
	20 South Claudend Inonworks II. 1 20 0 0 9 7 dl
	20 Ulverston Mining Co. [L.] 10 0 0 1 %
	100 Vickers, Sons, and Co. [L.]
	50 Welsh Ironworks Co. [L.]
	10 West Mostyn Coal [L.] (12 p.c.pref.) 2 0 0
	100 Wigan and Whiston Coal Co. [L.] 70 0 0
	WAGON COMPANIES.  10 Birmingham Wagon Co. [L.] 10 0 0 17½ 1½  20 Pattlet Wagon Co. [L.]
i	10 Birmingham Wagon Co. [L.] 10 0 0 436 43 P 10 Glongester Wagon Co. [L.] 10 0 0 436 F 10 10 Glongester Wagon Co. [L.] 10 0 0 436 F 10 10 0 0 0 0 436 F 10 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	10 Gloncester Wagon Co. [L.]
	50 Midland Wagon Co. [L.]
	10 North of England Wagon Co. [L.]. 5 0 0 3% % Plant of Parkgate Wagon Co. [L.]. 5 0 0 3% % Plant of Parkgate Wagon Co. [L.] 10 0 0 1
	10   Birmingham Wagon Co. [Li.]   10   0   0   17%   18%   20   British Wagon Co. [Li.]   10   0   0   0   45%   45%   10   Gloucester Wagon Co. [Li.]   10   0   0   0   4   45%   10   10   10   10   10   10   10   1
	to Torkshire, "agon co. [Li.]
	TELEGRAPH COMPANIES.  *8t." Anglo-American 100 0 0 731/ 751/ 10 0 0 7 1// 1//
	10 Cuba, 10 per cent. processes 20 0 0 0
	10 Globe Telegraph and Trust
1	25 Indo-European Extension 10 0 0 3% 11
1	10 Titto 8 per cent preference
	*St." Submarine
	20 Western and Brazilian
1	Wor
Į	MISCELLANEOUS.